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REPORT ON PRE-1942 WELLS ROCKY MOUNTAIN ARSENAL

94-34838

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REPORT ON PRE-1942 WELLS ROCKY MOUNTAIN ARSENAL

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	D.	Report of Plugging Operations of Deep Wells on the Rocky Mountain Arsenal	
	ε.	Pre-1942 Wells Summary of Available Data	

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LIST OF ATTACHMENTS

Location of Abandoned Farm Wells and Plume Patterns (Geraghty & Miller, 1981) Real Estate Plat Map - 1942 1937 Cultural Map - Pre RMA Well Locations

1.0 INTRODUCTION

The area on which the Rocky Mountain Arsenal was established was previously devoted to agricultural and residential use. A large number — perhaps as many as 300 — water wells had been constructed for irrigation, stock watering and domestic use. Some of the wells are deep; as many as 40 may have been drilled to depths greater than 100 feet. Two of these wells are as deep as 1000 feet. Upon acquisition of the property early RMA plans indicated the intentions that some of the wells were to be "filled" by unspecified methods. Others were to be "covered," and others were to be left "as is."

Information on the location and condition of some of the wells is available from several sources, and all of these sources have been examined and an attempt made to compile the information into one document.

1.1 HISTORICAL WELL INFORMATION

The earliest information on the number and location of the wells is from a 1943 Army map (Drawing 7164-2105) showing the approximate location, and from the appraisal reports prepared during acquisition of the property. The map shows 218 wells in the present area of the RMA plus Section 10. Of the 496 property appraisal reports, 437 have been obtained and reviewed. These reports note the existence of 230 wells within RMA plus Section 10. Not all of the wells noted in the appraisal reports are shown on the Army map and not all of the wells shown on the Army map are noted in the appraisal reports. Combining this information indicates that there may have been as many as 300 pre-1942 wells on the RMA, of which, as many as 41 range in depth from 100

feet to 1000 feet. Thus wells on the Arsenal have penetrated at least into the Laramie Formation and possibly as deep as the Fox Hills Formation.

The Army map indicates that 33 of the wells were to be "filled," 156 were to be "covered," and 29 were to be left "as is." No details have been found of "filling" procedures; "covering" apparently meant placing wooden planks over the well, or installing a wooden plug.

Data dated 14 August 1946 received from the PMA lists 249 wells on the RMA plus Section 10, of which 39 are noted as "filled" and 35 are "dry." Water levels are also listed for 127 of the wells; most of the wells with no water level data are snown as either "filled, dry, not located, plugged, or covered." Some of the wells with no water level data probably were not located in 1946 and have the remark "Copied from Record of Nov. 26, 1942 - RMA - CWS." About half of the wells listed were hand-dug wells. Many of these may now be filled by wind-blown material.

In 1955, the USGS found and opened 34 wells during a groundwater study of the area. Location sketches, descriptions of the wells, depth of water, and depth of well are available for those wells. It is not known whether they attempted to find more, or whether they were only establishing a network over the area for monitoring purposes.

The Corps of Engineers (COE) sealed six wells in 1962 by blasting the casings at three intervals and pumping cement into the bore. Five others were searched-for and not found, and four wells reported as "deep" wells were found to be shallow and were not sealed.

The method of construction of the pre-Arsenal wells can only be inferred from the reported diameter of the wells. About one-half of the wells are from 30 to 60 inches in diameter and were presumably hand-dug. The others range from three inches up to eighteen inches, and must have been drilled. Some appear to have been originally hand dug, then deepened by drilling. From their age, one would assume that most were drilled by cable tool methods. No details are available on methods of completion; some may be cased throughout, others may have casing only down to competent rock.

In their report "Evaluation of the Hydrogeologic System and Contamination Migration Patterns, RMA" dated 1981 Geraghty and Miller present a map purporting to show the locations of old farm wells, those over 100 feet in depth, and those filled. Many discrepancies occur between the data presented on the map and the Army data. It appears that few, if any, of the wells were observed in the field. The map (Attachment 1) is attached to this report.

1.2 PRESENT STATUS OF WELL INFORMATION

The task of compiling all known information on the location, type, size, and condition of the pre-1942 wells is virtually completed. Or apparently 496 appraisal reports prepared for acquisition of the property, 437 have been examined. A map was prepared showing where wells were noted on the reports of each parcel. Army reports that the remaining appraisal reports are not available (letter to Ed McGrath from Gary Blair, Aug. 22, 1985).

Aerial photography taken in 1937 has been examined by photo interpretation personnel and a map prepared showing the location of homesteads and other buildings that might be indicative of the presence of wells (Attachment 3). Present day features are shown to assist in orientation in the field.

The well locations and corresponding numbers shown on the map were taken from the Army Drawing 7164-2105. The depths, construction method inferred from casing size, and "filling" data are from the RMA 1946 tabulation. Identification of those wells shown as "plugged" is from the COE report of plugging in 1962. A number of possible well locations interpreted from the 1937 photographs are shown. It should be noted that in several cases, "possible" well locations are shown close to and in similar orientations as Drawing 7164-2105 locations. This may indicate inaccurate original locations.

Attachment 2 is a plat map showing those parcels in which wells were reported during the appraisal but which do not appear on the Army Drawing 7164-2105. The plot map was constructed by interpretation of the appraisal reports.

Some of the discrepancies merit attention. For example, there are three old wells in Section 26. Number 1 is reported as 27 feet deep, Number 2 is reported as 700 feet deep and Number 3 (at the edge of Basin F) as 48 feet deep. Both Nos. 2 and 3 are on the same parcel, on which two wells were reported, one shallow and one deep.

The USGS sounded Number 2 in 1955 and reported a dug well with a depth of 30 feet. In 1962 the COE cleaned the well in preparation for sealing and found it to be only 30 feet

deep. They concluded that the 700 foot depth was in error, replaced the well cover, and moved to Number 1 which they assumed to be the deep well. They were unable to find a casing, and since "RMA records show (No. 1) to be razed and filled," inferred that it was in actuality the deep well site. It appears likely that Number 3 at Basin F is the 700-foot-deep well, and that it remains unsealed.

A compilation of all of the available data regarding the existence and condition of wells is included in Appendix E. The discrepancies in existing data can readily be seen. The 1946 RMA "Data of Wells on RMA," the 1955 USGS inventory sheets, and the 1962 COE "Report of Plugging Operations of Deep Wells on the Rocky Mountain Arsenal" are also appended. The appraisal reports have been already submitted to Mr. R. Turkletaub of the Army.

2.0 CONCLUSIONS

As many as 300 water wells predate the RMA. Some of these are shallow and probably present no cross contamination hazard. Some have apparently been properly plugged. Others, however, are sufficiently deep to penetrate into and below the Denver Formation, and their condition is not known. As many old wells as possible should be found and sampled and their physical condition be determined.

The ultimate goals of such an investigation and ensuing efforts would be to determine whether the deep aquifers are contaminated, to prevent future contamination, and to remedy any damage already done. The initial effort probably would be much less comprehensive. Several questions require answers before the total scope of investigation could be designed. Those questions are:

- 1. Do the wells still exist as open holes with communication to the aquifer(s), both vertically and laterally?
- 2. Do the wells presently contain contaminants? If so what?
- 3. What is the probability that the wells, even if presently clean, present a conduit for cross-contamination in the future?

The complete study could be separated into four phases:

- Phase 1. Office Well Location
- Phase 2. Field Well Location and Screening
- Phase 3. Hazard Evaluation
- Phase 4. Remedial Action

The results of each phase are prerequisite to planning and accomplishing the ensuing phase. Phase 1 is already virtually completed to the extent possible with the data available. Phase 2 should probably consist of a screen to determine whether further testing is required, and if so, in what wells or areas.

REFERENCES

- 1. Geraghty and Miller (1981), "Evaluation of the Hydrogeologic System and Contamination Migration Patterns, Rocky Mountain Arsenal"
- U.S. Army, (1943), "Location of Farm Wells," Drawing 7164-2105
- 3. U.S. Army, (no date), "Report on Plugging Operations of Deep Wells on the Rocky Mountain Arsenal," COE, Omaha
- 4. U.S. Army, (1946), "Data of Wells on RMA," six pages of data, RMA files
- 5. U.S. Geological Survey (1935), Well inventory sheets, unpublished data

APPENDICES

Appendix

- A. Appraisal Reports of Properties Pre-existing on the RMA
- B. Data of Wells on RMA 1946
- C. U.S. Geological Survey Well Inventory Sheets
- D. Report of Plugging Operations of Deep Wells on the Rocky Mountain Arsenal
- E. Pre-1942 Wells Summary of Unavailable Data

APPENDIX A

APPRAISAL REPORTS OF PROPERTIES PRE-EXISTING ON THE RMA

Previously transmitted to USATHAMA

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APPENDIX B

DATA OF WELLS ON RMA
1946

APPENDIX C

U.S. GEOLOGICAL SURVEY WELL INVENTORY SHEETS

APPENDIX D

REPORT OF PLUGGING OPERATIONS
OF DEEP WELLS ON THE
ROCKY MOUNTAIN ARSENAL

APPENDIX E

PRE-1942 WELLS SUMMARY OF AVAILABLE DATA

APPENDIX A

APPRAISAL REPORTS OF PROPERTIES PRE-EXISTING ON THE RMA

Previously transmitted to USATHAMA

APPENDIX B

DATA OF WELLS ON RMA 1946 14 August, 1946

Short \$1 of 5 Dwg 7/64-2/05 Apr.5-1943

DATA OF WELLS ON R M A

Range 66 West - Township 2 South

			DEPTH TO	DEPTH O	9 IZR	DEPTH	
BC.	TRACT	TELL #	78.7EZ	-74.753	CAS ING	WE'LL	PEWARE
19	D-11	1			6*	14'	Dry
20	D_5	1			10"	241	
20	D_5	2			_	600*	Filled electrd Nov. 1942
20	D-5	3	69 '		4"		
20	D_7	4	3 E'	14'	4*	2001	elegard Nov. 1942
30	D-20	1	12.	6"	5 •	45'	· Record Nov. 1942
30	0_20	2			36"		Galv. casing mater at top of
		_					well, W/float
20	D-21	3					Pilled
3 0	D-14	4					Capped; no data
30	D-13	5					Pilled
30	D _20	8					Plugged at 8'; dry
27	D-20	1	221	31	36°	25'	Concrete
27	D_26	2	23.5'	2.5'	6*	26'	_
21	D-26	2					Dry.
31	D-25	4	21'	3.	12	40*	• Record Nov. 1942
£4	D-28	5	21'	24'	48*	45 *	Steel Casing
. •	D-28	6	19*	30 1	30*	49*	Come. Culvert; test on this well
27	D_28	7	•			501	Filled: * Record Nov. 1942
	D_28	8			6	190'	Plug at 3'; • Record Nov. 1942
27	D-25	9					Filled
32	D-31	1	161	22'	36 °	100'	Congrete; • Record Nov. 1942
32	D-31	2				40.	36' Dug well; dry. * Record Nov. 194
	D-52	3	29 •	21'	200	501	Iron Casing
32	D_5	4					Filled
32	D_32	5		•	_	•••	Filled
32	D-5	6	241	61	6°	20•	<u>_</u>
			Tan.	co 66 Year	it - Town	shin S S	onth
							
5	2- 8	1	21'	51	ر ہے خ	26'	5
5	2 _9	2	118'		Inside +	≠ 700•	From Cont Record Nov. 1942
5	L g	3			-	-	No data - mailed
5	2-4	4					Long Branch School House
6	2~3	1	5'	9•		14'	-
6	L	2 /			6*		Dry - partly filled
6	I -5	3 ′	6'	11'	6 °	17'	
6	2-3	4					Filled
6	E-2-8	5				271	Unable to locate electrd Nov. 1942
6	3_7	6			6*	501	• Record Nov. 1942
' 8	E -92	1	7*	15'		22*	
			Ranz	9 57 Nes:	t - Towns	hip 2 So	outh
,		•				6004	a Basani Yan 1049
22 22	A-49	1 2	55' 32'	21	6 *	5001	• Record Nov. 1942 Congrete
1	1-19	4	34	61	36*	524'	· ·

1/26

			2:	ingo 67	West - Tow	nahip 2	South (Cont'd)
		_	DEPTH TO			PIR	
SEC.	FACT	TELL F	TAIR	RATER	CAS INC	MELL	REMARK
22	4-1	3	601		6*	500*	• Record Nov. 1942
23	4-54	1	51'	12*	6'x6'x5'	631	Pit - cased below
23	4-54	2	51'	8.	36*	59	Concrete
23	A_5	3	471	•	48*		Congrete
23	A-3 A-2	4	•		-	4601	Filled - Wesard Nov. 1942
25	4-3	5				5201	
-•		-				U	Record Nov. 1942
23	1-4	6	54'		6-	4801	Record Nov. 1942
23	4-4	7	271	71	48*	341	
23	4-54	8	51'	g:	36°	_	Congrete
24	D-10	1	74'	•			Hand pump in well; no data
24	D_9	2	240	31	8 °	771	
24	D_1	3	37'	70	6 -	441	
24	D-1	4	241	10.	24"	541	Concrete
24	D_{-1}	5	14'	61	60 °	201	Concrete
24	2_1	6				4501	4
							REA being used for irrigation, no
							data.
25	D-10	1	69•	10	6 ~	79*	•
•	D-10	2			6*	19"	Dry
	D_10	3					Pilled
26	4-37	1			8*	27 '	Dery
26	A-59	_ 2			36"	7001	Dry; milled; • Record Hov. 1942
25	A-59	3			36 -	481	Dry; miled
2.7	58	1			8•	6201	
		_					*Record Nov. 1942
27	A-55-1				8.		Cons. Frame, well covered, no data
27	A-55					461	Filled; * Record Nov. 1942
27	1-55-0				_	251	Dry
27	4-86	5	521	63	6	581	
27	A-57-1				36		Dry; drilled below pit
28	A-56-1		461	21	4"	48'	
28	4-84		37 •	10'	484	471	Come.
33	1-74	1	41'	15'	30	56'	Conc.
33	4-74						Filled
33	1-03	3					Filled
33	A-95	•	110'	51	6	115'	House #812
33	884	5	•		30"	601	Dry - brick milled
33	88-A	6			2.	801	21' to plug • Record Nov. 1942
22	A-79	7	404	•-			Unable to locate
22	1-79-1		421	91	7*	501	
33	A_76	9	70•	26'	48*	961	Congrete
33 33		10	441	13'	36 °	571	Congrete
- ~~		11			*n#		Plug
	4_89	•	05.		2C	101	Dry Brick Walled
ა 5	1 -91	1	87 •	37 '	4*	124	

Range 67 West - Township 2 South (Cont'd)

				07 1100 0 0	-0144	p 2 000	100 (1000 4)
SEC.	TEACT	तहार 🚽	DEPTH TO	DEPTH OF	S IZZ Cas ing	DEPTH	REMARIS

35	7-30	2			36"	351	Dry - Concrete wall 103
35	1-92	3					Dry
35	4-92	4	491		6*	650	• Record Nov. 1942 \$3 Island
36	D-23	1					Filled
36	D-24	2					Filled
			Range 6	7 West -	Township	3 Sout	<u>:h</u>
2	5-66	1			4.0		Plug
	B-65	2			6.4		Capped - no data
2 2 2 2	B-63	3				5-16-5:	rilled
2	3 _63	4		7:6-		と	Filled
2	B-12	5	وم م	200 17	_0001	ස ං	Hdg. #573- #Record Nov. 1942
3	B-62	i	291	61	40#	351	Congrete
3	B-61	2	261	18'	64	441	
\$	3-60	3			•		Filled
3	B-65	4					Hand Pump - Water no data
3 3 3	3-12	5	భా	61	ദ •	691	mar : mp = more: no care
· ₹	3-4	6	65 '	2'	6	67 °	
•	3– 6	7	52*	15,	8"	77*	Hdg. 7614
	8_37	8	76	m,	•	11.	
	B_42	9				700	Hdg. #645
3	B-43		e 4		3 a#	700	Filled: Record Nov. 1942
3 3 3			541	51	18"	591	•
3		n n			64	5001	Plugged • Secord Nov. 1942
3	3-56		47 *		48*		Hand Pump - Vertical Drive Shaft
3	3-51	13	56'	1'	6*	57 •	
3	3-58	14				58,	Record Nov. 1942. W/Motor #R5038A -
_							30 galTank; school house 7181
3	3-40						Hand pump, mater, Cane. Cover No dat
3	B-38		64'	41	6*	681	
3	3-52		451	23'	48"	68 °	Consrete
3		18	_				Hand pump-water, conc. cover, no dat
3	3-54		34'	12'	30	461	6'x6'x6' Concrete
3	B-52~						Hand Pump, mater; covered; no data
3	3-53						Hand Pump, water, covered, no data
3	3_62			_			Unshie to locate
3	3-39		651	29'	6"	941	
3	B-52		42'	1'	8	43 1	
4	3-33	1				71'	Dth
4	B-31	2					Filled
4	3_16	3	47 '	7'	40"		Hand Pump
4	9-21	4			48 ·		Dry, Congrete
4	3-34	5 .			36°	51'	Dry, Concrete
			Janes.	57 West -	- Townshi	. 3 Sa	uth
4	B-13	6					Milled
4	B-17	7	60*	51	40"	651	
4	B-14	8				60*	Filled; • Record Nov. 1942
4	B-33-	1 9	601	18*	6*	78*	
		_					٩

Range 67 West - Township 3 South (Cont'd)

				7 2148	1000	<u> </u>	and toods a)
			DEPTH TO	DEPTH OF	's IZE	EPTH	
SEC.	TRACT	<u>अवस्त क</u>	WATER	ZA TER	CAS II:08.		REMARIS
A	B-35	10	46'	261	6ª	721	-
4			20.	20.	0	14.	Te 11 - 3
4	B-36	11					Filled
4	3-1	12					Derby Gate
4	B_2	13					Filled
4	B_1	14					Unable to locate
9	B- 35	1				341	Deg .
	3-35	2					Filled
9	3_05	3			4"	500*	• RecordedHov. 1942, dropped 103'
_			·	.			Io water.
9	B-71	4	<u>a,</u>	14'	54	75	
9	3_124	5			20a	10001	Brick Walled, cased below,
9	B_57	- 6	51'	51	6 *	681	* Record in Nov. 1942
9	B-39	7	27.	3'	6	56'	B C
3	9-03	4				77"	
۵	B_140	8	41.	••		44.	* Record Nov. 1946
. 9 3	B-33	9	491	3'	36"	441	
3	B-124	10	43.	61	40	551	
•		11 /				10001	
4.9	B-142 B-122	12				8001	· - · · · · · · · · · · · · · · · · · ·
	B-122	13				73 '	Filled
, 3	B-79	14	46*	6*	- c4	63 •	Filled
. 9 9 9	B-142	15	40 .	9.	36ª	521	Congreta
G G	B-85	15	73'	5 1	6 °	761	Filled
٥	B-123	17	531	3. 8•	6 -		
9	B-73	18	591	131	6 ~	- 61' 72	
9	B-76	19	J3 ·	٠ ســ	•	54'	Dery
9	B-81	20	491	91	5 °	581	• · · · · · · · · · · · · · · · · · · ·
	8-158	1	33 '	Ĭ,	8 *	341	No Marker, no cover, no number
	B-154	Ž	35°	141	48*	491	Concrete The American Contract of the Contract
10	B-152	3	3 3 ·	73.	40"	5551	
40	W-146	•		•	40	303.	Come. 42° to easing; water below elected Nov. 1942
10	B_151	4		•	36 *	451	
	B-153	5			30	40'	
	B-149	8					Covered - no data
	B-151	7				•••	Pilled
	B-147	ś	37*		6*	31'	Dry - brick walled 20° to casing
	3-150	9	37 · 35 ·	31	48"	* 0 •	Community of the second
	B-146		33. 37'	31	40	38 1 401	Congrete
	5-27	11	31 -	٠.		TV'	9:11 -4
	B-38	12	25'	11.	48° .	10.	Filled Commence
	3-39	13	25°	14'		39°	
	3-09 3-35	14	30.	74.	36"	3U. M	rick Walled
灣.	3 -00	7.4					4'5° Eig. Brick malled 5', well filled
. 10	3-92	15				5801	
10	3-89	18					Hand pump, water, no data
10	B 1	10					Record Nov. 1942
	B-163	17				301	
TO	3-165	18					Hand pump, water, no data
10	B-152	19					Unable to locate
		·	_	•			

Hange 67 Next - Township 3 South (Cont'd)

					222			
10 3-163 20 36° 30° Filed 50°	0.50	6 0.46	···· 1					
10	SEC.	TRACT	ا بلناظة	MALLA	- MALEAR	CAS LAG	بندهه	(Charles)
10	10	9-150	20				361-	Dev: Brigk Walled
10								Pilled
				481	151	5**		
11								'Congrete
1								- -
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11	.1	B-178	10	28*	Ľ.		391	
11	.1	B_172	11	20.	2,			Concrete
### As Concrete, 16' to Cent. Pump - Cased below 1		B_180	12	27'	61	10"	33'	
S_112 15 25' 16' 9" 38' B_118 16 19' 5' 36' 24' Concrete 11	1.1	B_120	13	35'	1.	48	36 '	Concrete
## B-112 15 25' 16' 9" 38' B-118 16 19' 5' 36' 24' Concrete 11 B-107 17 21' 4' 6" 25' 11 B-117 18	1	3-113	14			48"		Concrete, 16' to Cent. Pump -
## B-118 16 19' 5' 36' 24' Concrete 11	•							Cased below
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11				401	21	5		
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12 8.46 16 Dry		B_55		•		5 **		באל (Control of the Control of the
Signal Control of the								D _{k-v}
	•							3

Range 67 West - Township 3 South (Cont'd)

Sea.	TRACT	Well #	DEPTH TO	DEPTH OF	S IZE CAS ING	DEPTH WELL	REVARAS
12	1-58	17	יב2	41	10"	25'	
12	3-59	18	26'	21'	184	471	Old Boilers casing
12	B-87	19	. 15'	41	6ª	191	ASE SESSES ONESTIRE
12	2- 88	20	151	11'	8	26'	
12	E_89	21			•	14'	Dry
12	E- 85	22	211,	14'	6*	35'	
15	C-14	1	43'		24"	8001	Galvanized - *Record Nov. 1942
15	C-14	2	37		4"	•••	Bldg. Locked 7-822
15	C-14	3	-,'	45	30ª		Erick Walled 34' to casing
15	C-15	4	30*	10'	6	40*	
15	C_15	5	3C*	7.	6 €	37	
16	C-13-a	1		•	•	•	Hand Pump - No data
16	C_18	2			6 *	291	Dry
16	C-12	3			30 "	31'	Dry - Concrete
16	C-11-C	4					
16	C-10	5	421	g•	8 ^{4}	50*	
16	C-9	6	38'	9•	6	471	
16	C-8	7			-	421	Dry
16	C_7	3	37 '	8*	8*	461	
3	C_11	9			40"	-	Congrete - Drive shaft Woulley
•							20' to case
16	Ç-5	10	471	3'		501	18' to casing - 4'x5'x5' Pit.
16	C-3	11			12*		32' to casing - 48" Concrete pit
16	C -8	12	441		40°	441	Congrete
22	C-26	1	14*	2	8	/61	
22	C-25	2			10		Filled to 1' of top
22	C-25	3	13.5'	.51	6*	147	
22	C_22	4					Hand Pomp - Water - No data
22	C_25	5	13'	15'	48*	28'	Congrete
22	^C -25	6	141	18'	48"	321	Congrete
22	C_25	7	13'	12.	48" .	251	Congfete
22	G_25	8	13:	1.	6*	141	Congrete
21	C-19	1					6'x8'x5' Venlt W/12"x12" plug
21	C_19	2					in oasing Filled
•		7 ~					

NOTES: . Copied from Record of Nov. 26, 1942 - RMA - CTS

Compiled by Morton Serree, 14 August, 1946

APPENDIX C

U.S. GEOLOGICAL SURVEY WELL INVENTORY SHEETS

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Hedes			
Ou u	U.E GEOLOGICAL SURVEY - GROUND WATER BRANCH	* 16	
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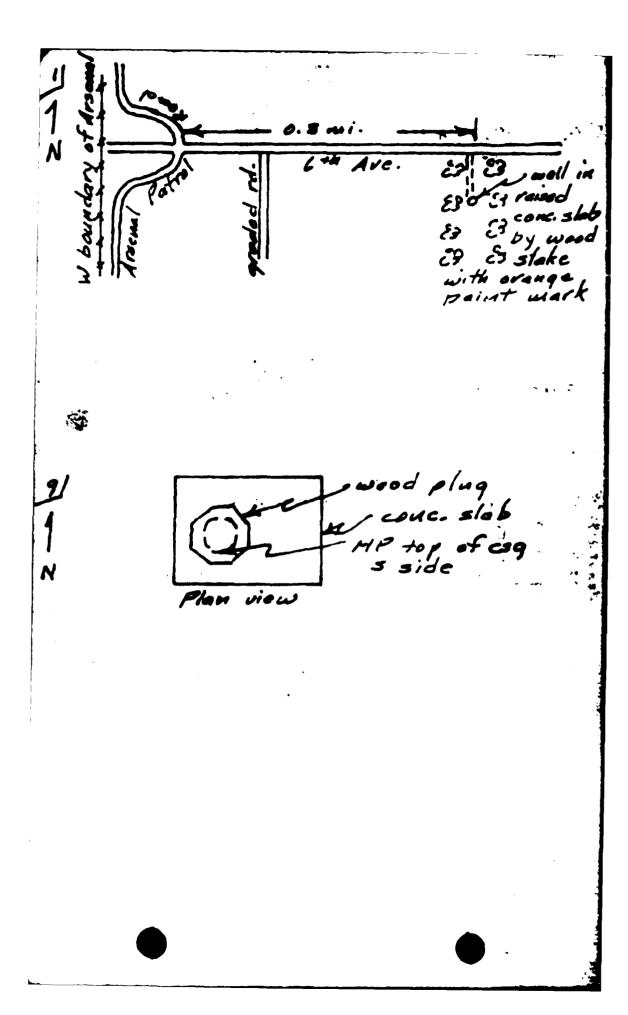
9-185-July 1936	UNITED STATES	MeBee
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74.38	GEOLOGICAL SURVEY	C3-67-48d61
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• 185-July 1935 UNITED STATES	•
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Date 9/1/55 .10	Field No.
Record by A A Hersher	Office No.
Source of data RMA files + field No	+45
1. Location State Colorado County	Adoms
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	3 àn 67 👗
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Tenant No MC Address	
Driller Until 12 a ve m Address	
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4. Blancion	55
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12. Use: Dom, Nock, Ph, RR, Ind, Irr QLA Adequacy, permanence	
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LISS-July 1936 UNITED STAT	TES TOTAL MOST SEE
64.00 DEPARTMENT OF THE	E INTERIOR
GEOLOGICAL SU	RVEY C3-67-9 baz
45.88 WATER RESOURCES	BRANCH .
VELL SCHEDULE	
Date 8/30/58	., 19 Pield No
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Tenant New C. Add	irem
Driller United and Add	ires
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4. Election 5200. 4 m Frank HAL VINE	-Alid)
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4 6 I C23, 19 Care Stab wh	sich is 3.3 ft. below surface
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Taste, odor, color	
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(April 1943). No. 7114-2195	LEW AND THE WAS NOT BELLEVISION AND LOSS.



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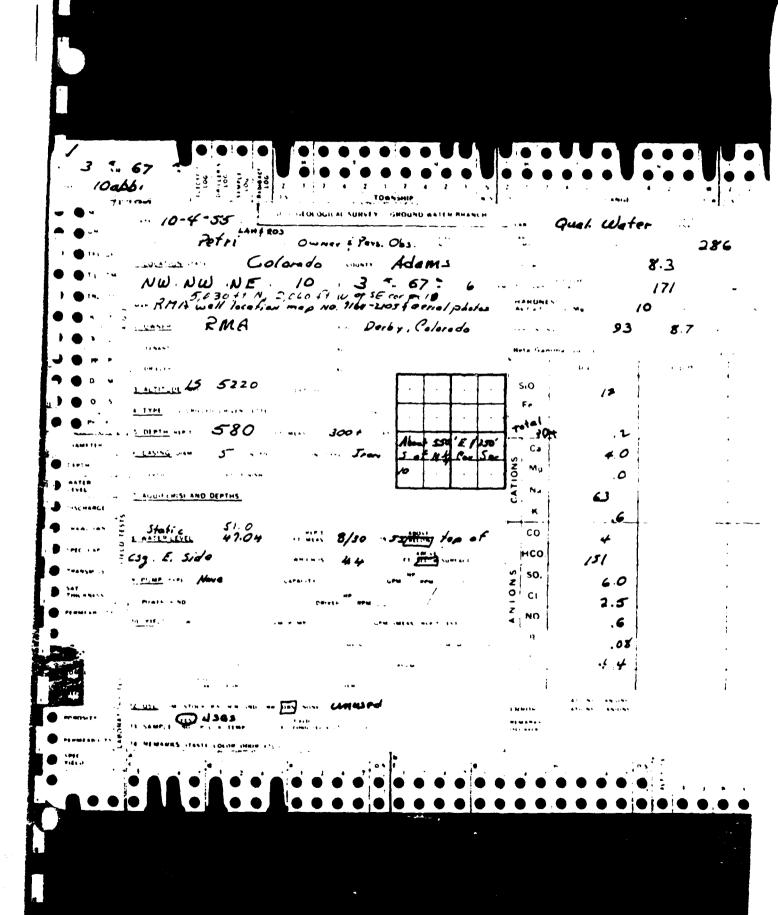
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1906 viet-1906 GEOLOGICAL SURVEY WATER RESOURCES BRANCH WELL SCHEDULE Date 4/30/55 19 Field No. Record by A. A. Hershey Office No. Source of data R. M. A. Siles, + field Abs. 1/ Location: State Colopedo County Adams Map B. M. A. WELL les MAR NO. 7164 -2108 1 Acris Phono NW X SW X 000. 9 T 3 R 67 E 2. Owner: Racke MEN. Arsens! Address Der Ly Colo Tenant Make Address Driller Vakaowa Address 3. Topography Mesely level Diain Elderion SEID. 7 nabour MSL (VMB-Alad) 5. Type: Due drilled driven, bored, jetted _____19___ 6. Dopth: Ropt. 61.0 ft. Nova 60.1 ft 7. Casing: Diam. L. in., to in., Type & &. Depth ____ A. Finish ____ From ______ ft. to _____ 8. Chief Aguiler ____ 9. Weler level #7. 4/ 12 Topt. 9/1 19.55 above Scare an S. Sale Too at Con which is _ to the policy surface 10. Pamp: Type Make Capacity _____ G. M. ___ G. M., Meas, Rept. Pat. 12. Use: Dom., Stock, PS., RR., Ind., Irr., Obs Unu Sed Adequacy, permanence 600 d 065. well

D/W - 11/6/57 - 58-09 below MP - DC

14. Remarks: (Log. Analyses, etc.) Hell "17. Sec. 9. - R. M. R. Map.

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9-186-July 1936

UNITED STATES DEPARTMENT OF THE INTERIOR Mc Boc GEOLOGICAL SURVEY 63-47-10-64-61

	MCE BUNNA	•		**
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1266760 U.S. GEOLOGICAL SUNSEY GHOLAS MATER PRANCH MILLION A R.O. SAN, The SOUNCE RANT Files & Pers Obs. 1 2550 LULALINA STATE Coloredo MAN Adams NE . NW . NW 150 12 . 3 3. 67 . 4,980 ft N; 4380 ft. W of SE corme/2 . The LONNER Rocky Mtn. Arsens / ... Derby, Colo. (margarine 1 ALTHURE . S246 4 TYPE OUT DESCRIPTION OF STREET - 5 DEPTH -171 . 23. 1 LANIE DAW 42 10 10 in cone salvedos FT FIRMS -- ! AGUIFERIS AND DEPTHS 20.2 ÇO 9/9/1155 to of 20. 27 ... HCO. CONC. CS9. E. side menn 1 tune in None C1 121 . = #()#

9-186-July 1938 Reviewi

UNITED STATES

DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

		WATER RESOU	rces branch	•		
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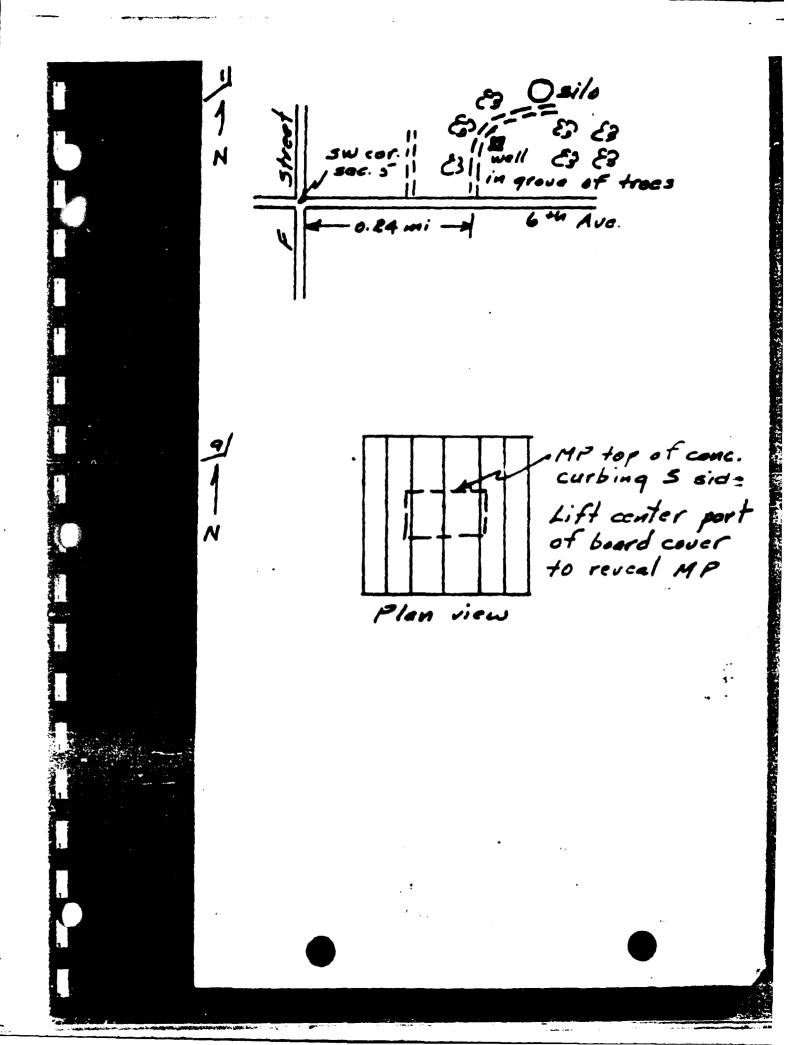
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P400-July 1906 Royland	United States Epartment of the in	
19.00	GEOLOGICAL SURVEY	TRAIL MARIE
WELL SCHEDUL	WATER RESOURCES BRA	C3-66-Sccd1
Date 8/30/5	5	Pield No.
Record by LLCX	O. Smith	Office No.
Source of data RA	1A files & field of	53.
1. Landing: Reals	Colarade County	Adams
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2, Owner: Rack	y Hom Acres Action	Derby, Colo
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3 % 66 5 ddado S. GEORGICH AL SHINYEY - GHOUND WATEN HHANCH ... 8/30/55 RMA & field obs Rex 0. Smith Colorado Adams NE SE SE . 5 , 3 4.66 % ... RMA well loc. map no. 7164-2105 facinal photos Rocky Mtn. Arsenal Derby, Colo . your ... 700 T ACUITENISE AND DEPTHS 13- 3 L BATTELLINE 131. 30 9/2/05 got wind HCO Firon csq. ∽∃so. · None

descript of well no. 2 in sec. 5 our
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9-186-July 1936

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

WATER RESOURCES BRANCH

WELL SCHEDULE	C3-66-5 dda
Date 8/30/55	, 19 Pield No
Record by Rex O. Smith	Office No.
Bourse of data PMA FIRS & A	ers. obs
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Driller . Was Known	Address
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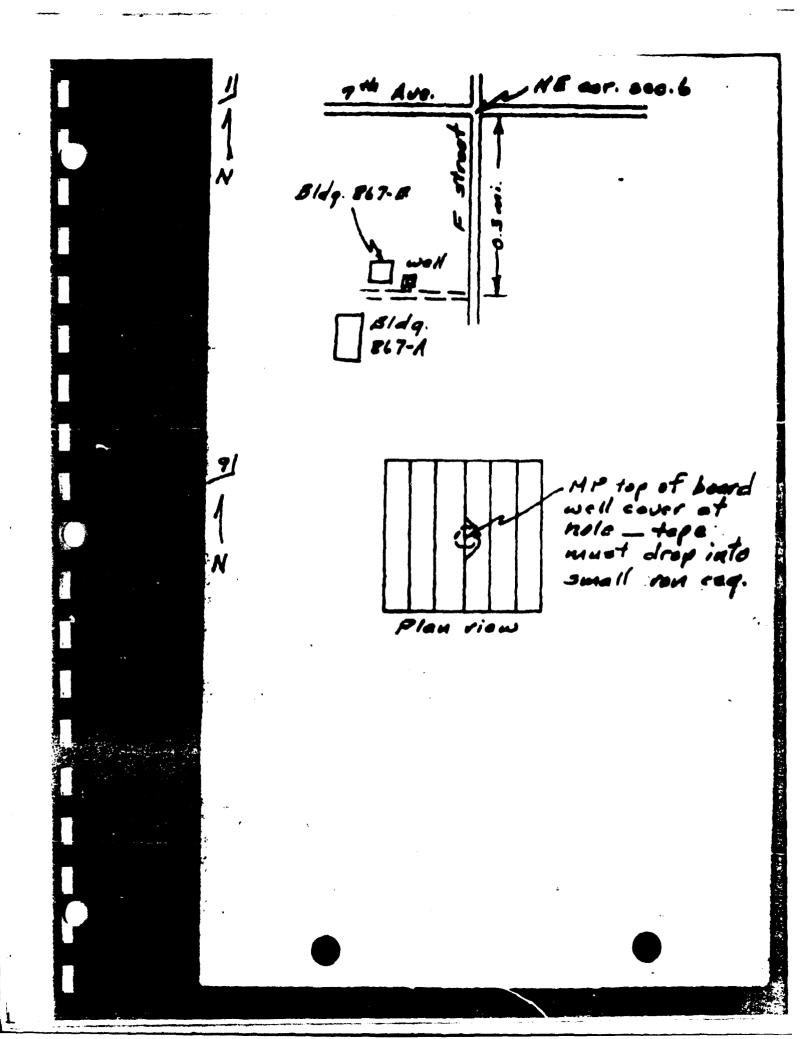
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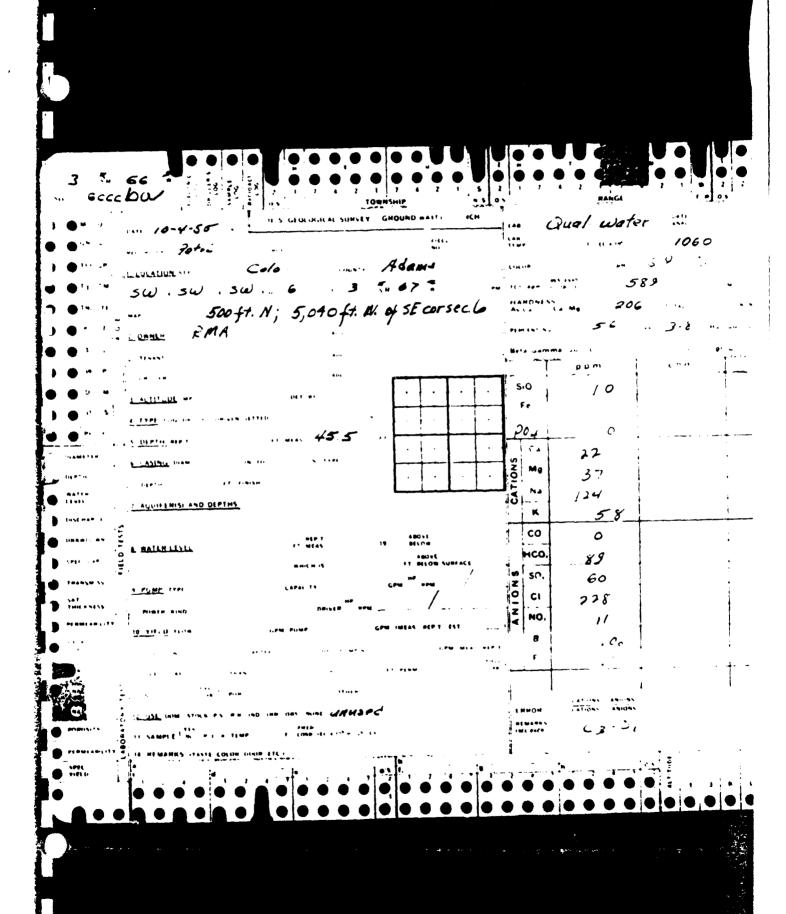
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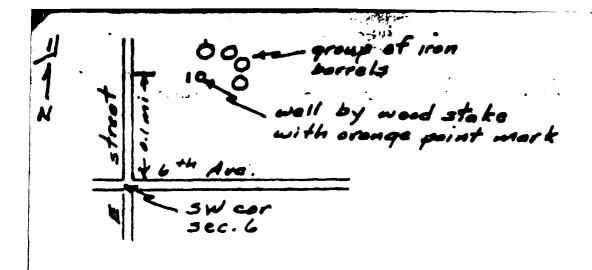
Berinel Revised DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY GEOLOGICAL SURVEY GEOLOGICAL SURVEY WATER RESOURCES BRANCH C 3 - 66 - 6 odd WELL SCHEDULE Date \$ \$5 55 19 Field No. Record by NGK. O. Servita Date \$ \$6 55 19 Field No. Bourse of data RIAD files of the f			
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DEPARTMENT OF THE INTERIOR 23-66-6ecel ILL SCHEDULI Date 8 31 45 10....... Field No....... Bourse of data RMA files & field als rado Coursy 1. Location: State .. LOC MAN DO 7164-2105 A DOING y SW ym 6 Tenent NAME Driller Links out 3. Topography gantly calling plain 4. Blootion 5 27 8 21 below M. 5. Type: Dug drilled driven, bored, jetted 19..... 6. Depth: Rept. 50 11. Mess. 45. 511. Others 21 Waler Lord 31.64 11, 100hy 8/31 10. Pump: Type Nenc Capacity ___ G. M. ___ Power: Kind lloraspower 11. Yield: Flow . T. ... G. M., Pump . G. M., Mona, Rept. Ent. ... 12. Use: Dom., Stock, PS., RR., Ind., Irt Olm ... HAUSEC....... 12. Quality



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Driller . 24	aknawn.	Address		
3. Topography	gently ca	uing pia	(K)	1 2
4. Elevation	ft. above			1 33
	drilled, driven, bore			200
	1. E. J. 11. 1			7.3
7. Casing: Dis	m. 50 1 in., to	in., Typebox	2K	23
•	ft., Finish			ئے ہے لینے
8. Chief Aquife	7	From		·
Others	•	0/-		
9. Water level	11.62 11.00	5 7/2	19.5.5 abov	TOPAL
CONC. W.	Il cap 5.54	Leaf which i	DAN	below unface
10. Pump: Typ	o less (C	vlinder Capacity	· C	i. M
Power: Kir	d Nanc	<u> </u>	Horsepower	
11. Yield: Flow	G. M., P	ump	i. M., Meas., Rep	ot, Ent.
1)-s-down	// 4//4-	- hours no	ımpine	G. M.
12. Use: Dom	Stock. PS., RR., It	nd Irr. Obs 4	nused	····
Adequacy,	permanence IA.	r abs 4	<i>ye(</i> /	
18. Quality 5	tagnant		Temp	 • F .
Taste, odor	, color		Sample N	<u> </u>
Unfit for				
14. Remerke: (I	log, Apalyssa, etc.)	#/-Sec. 8	RitteAs.	up na
	2115			
	and the second		*	

Sec. 1 conc. well capt. -MP top of conc. well cap 5 edge of hatch D/W.on 11/20/55 - 11.60 D/W on 4/3/56 - 11.47

19 ccdcc 20 20 20 20 20 20 20 20 20 20 20 20 20		O U O O		
A STATE OF THE PARTY OF THE PAR	MARKET BEACH	uality 4 Wat	CP 444	 2.4
DOWN L HELDED BY ROS. SOURCE RMA. Filest diser	values will	1 10 18		
THE OP . LUCATION WAS COLORAGE COURSE AC	toms		7.7 Sales	
Detail Sul a Sul a Sul asic 17 N : 2 550	Wat Se Cor = 10	444 + F	٠٠ ٥٥٥ريـ	. .
A A	TO THE TOTAL STATE OF THE STATE	** . Mu 643		•
Deray Min. Arsend on Deray	,. Colo	·- 48	55 m.	J.
MENE NONE	j Notis Gu }e	amma au Cit	U 10 ° gr	ار ا
DO WILLIAM CARROWA	Sio.	ppm ,	epm	
1 ALTITUDE - 5/79.4 AlidVMB	CROMEST.	14	1	1
	car, sec 19	:		
11 UIA / 7.0 11	- Ca	+		
DANETER LASING DIAM 6 10 10 TIPE PIPE				•
BOTEP DEPTH ET WAISH		>3	1	!
DISCHARGE AQUIFERIST AND DEPTHS PAI (FCE)	43. Na	365		i
Democros Static 13:	-	5.7		-
	(104 10 pt at 1			
Tongames !	HICE THE SO.		 	İ
Sale and Sale Care of the Care	2 30.	4270	}	
Primitability	NO.	119		
to TIELD JION _ GPM PUMP GPM IME	11 MPT 111	. 8		l i
And the second s	ार्ड <u>भारत स्थाप</u> ्राह्म	.42	!	
The state of the s		1.6	ł -	
The Control of the Co	•		1	
someth	SOMESTIC	CATIONS ANIONS	•	
Manual 12 Sample and Canal Control of the Manual Manual Control of the Manual Manual Control of the Manual Manual Control of the Man	Photo MP. Dr. Hunder	err classifical	ion Cy-52	2
SPEC	10/	3/65	e gan a come	., .
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	trong see See .	* ***		14

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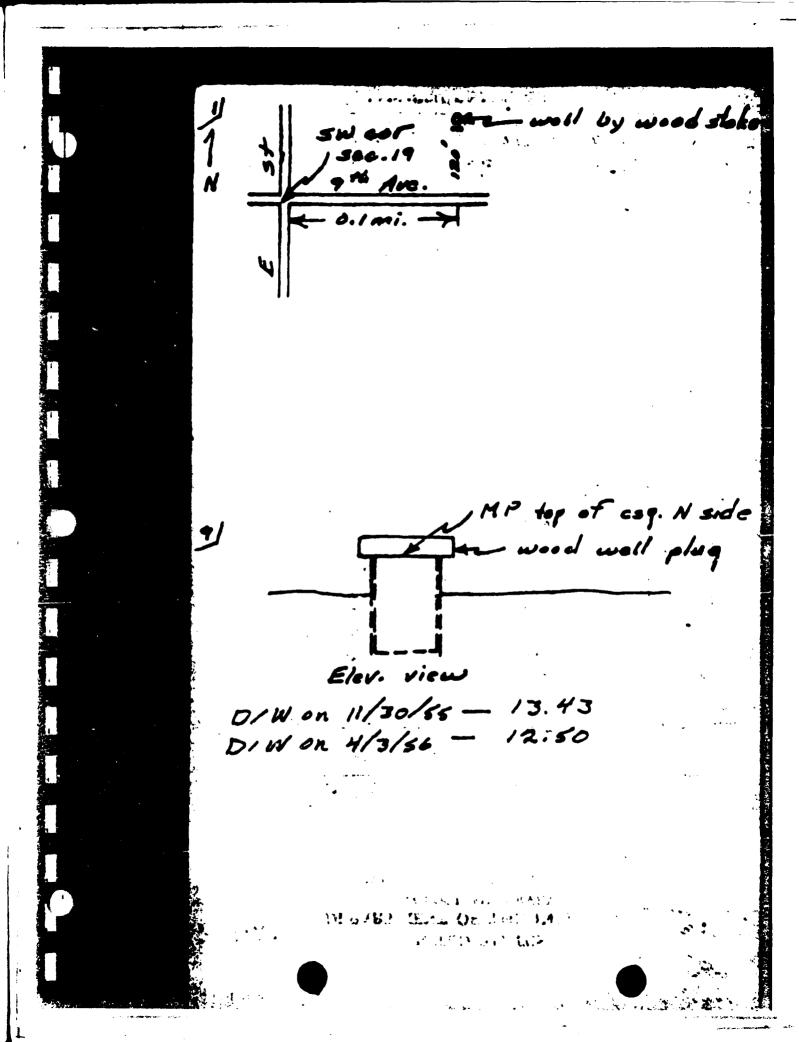
ON KEYSORT

9-100-July 1936

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

MM.	55
MM.	87

WATER RESOURCES BRANCH		
WELL SCHEDYLE	C2-66-19ccc1	
Date 8/26/55	, 10 Pleid No	
Record by ROS	Office No	
Binuros of data RMA files & pers	obs.	
1 Location: Blato Calerade	County Adams	
Mas RMA well loc map of mer	in philos of Adams Co	
SW 4 SW 4 000 19		
2. Owner: Racky Mtn. Accessed N	U, , , , , , , , , , , , , , , , , , ,	
Tenant News		
Driller Unknown		
3 Towards Gently rolling	Alexa -	
1. Floration 5/79.4 (Store MSL-VI	40. Alid	
below the stand of	Jel 10	
8. Type: Dug drilled driven, bored, jetted &		
6. Depth: Rept. 14. Moss. 16.	37470	
7. Caring: Diam in., to in., T;		
Depth		
S. Chief Aquifer	. From	
Others	a la La cestione de a d	
9.] Weder level 13.78 11 rept.	9/2/1055 above top of	
	which is	
10. Pump: Type	apacity G. M.	
Power: Kind	Horsepower	
11. Yold Flow - G.M., Pump	G.M. Mone Super Ust 77.	
	ours pumping 7 G. M.	
12. Use: Dom., Stock, PS., RR., Ind., Irr	unused	
Adequacy, permanence		
13. Quality	Temp	
Taste, eder, soler	Sample No. HSGS	
linds for		
14. Beneries (Los, Analyses, etc.) la/dis	no. in 200. 19 an	
Accord well les, me	P. 10. 7144-2106	
Plw - 11/6/97 12,00	below MP - DE	



M. 20 wab b w 28 88 8 2 1 7 2 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1		ANGE CONTRACTOR OF THE PARTY OF
OTA TH NULL NE NE NE LO 1 2 1 66 1 1 1 1 1 66 1 1 1 1 1 66 1 1 2 1 66 1 1 2 1 66 1 1 2 1 66 1 1 2 1 1 66 1 1 1 1	MARDNESS ALCO CO Mg FORCER N. Beta Gammia Su C L	PM STATES STATE STATES STAT
Depth sept 350 it was 383	SiO Fe	erm
DISTRICTION TO THE STATE OF A STA	Wg Na	
TON COSMY, E. SINCE WHICH IS O. 4 OT SITTED WHITE LET STORE OF THE PROPERTY OF	MCO SO. CI Z NO.	
Pendotity 1 SAMPLE MD P C R TIMP 1 COM SECRET M 25 C1	EMMON CATIONS C	arusa NOSS
PRIMERABATTY TILL REMARKS STASTE COLOR JOUR ETC. RMA		0 0 0 0 0

._____.

9-185 ((>ctober 1950)

UNITED STATES

DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

WATER RESOURCES DIVISION

Date 8/26/50	Pield No
6 ://	
Record by Rax O. Sar, +4	Office No.
Source of data L. R. Crawford & pers. oles	•
1. Location: State Colorado County 1 MapRNA well loc map no 7164-2	105 Earial pholos
NE X NE X me 20 T 2	NR 46
2. Oronor: Rocky Mtn. Arsena Address De	rby, Colo
Tenant None Addres	
Driller Kruger Address Address	eceo sec
3. Topography questly rolling plain	
4. Election	0,9
5. Type: Dug drilled driven, bored, jetted 1918	9,6
6. Depth: Rept. 350 11. Mean 32.9 ft.	5 %
7. Caring: Diam 4/R in., to in., Type ICa. 1.	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Depth 1.0.0. ft., Pinish Ofen hole	
8. Chief Aquifer Prom	1. 10
Others	
9. Water lood 37.76 11 rept. 9/2/	10 sto report of
ICOM CAR E SINC which is	Q. 4 1x above surface
10. Pump: Type Name Capacity	333
Power: Kind Hore	
11. Yidd: Plow	Mean, Rept. Est.
Drawdown	ing G. M.
12. Cer. Dom , Stock, PS , RR , Ind , irr Obel . Call	usad
Adequacy, permanence poor obs. well	/ .
18. Quality	Temp "F.
Teste, odor, color AR PATTED ALKALINE.	. Sample Yes
Undit for	
14. Remerbe: (Log. Assigne, etc.) Well Ma. 4. Acases wall Lac. map, W	in sec. Ro en
Account wall lac was a li	all plugged
at 31.3 fl	

2, : 66 U S. GEOLOGICAL SURVEY - GROUND WATER BRANCH - And water R.O.S. MINER RMA. files & obscriber 1570 Colorado LAUCATION STATE COUNTY HUOMS - Gane Focky Mtn. Arsend ... Derby . Colo. ppm TIAKNOWA S₁O, 3.8 Fe P0+ Ca HCO LOON COSING, N. SIDE 50. 539... CI NO. .05 ... for meety domestic HOMM.

WELL SCHE
Date 8/24/
Record by A.

Source of June
MapAM

MapAM

NW

2. Owner No
Tenant A.

Driller M

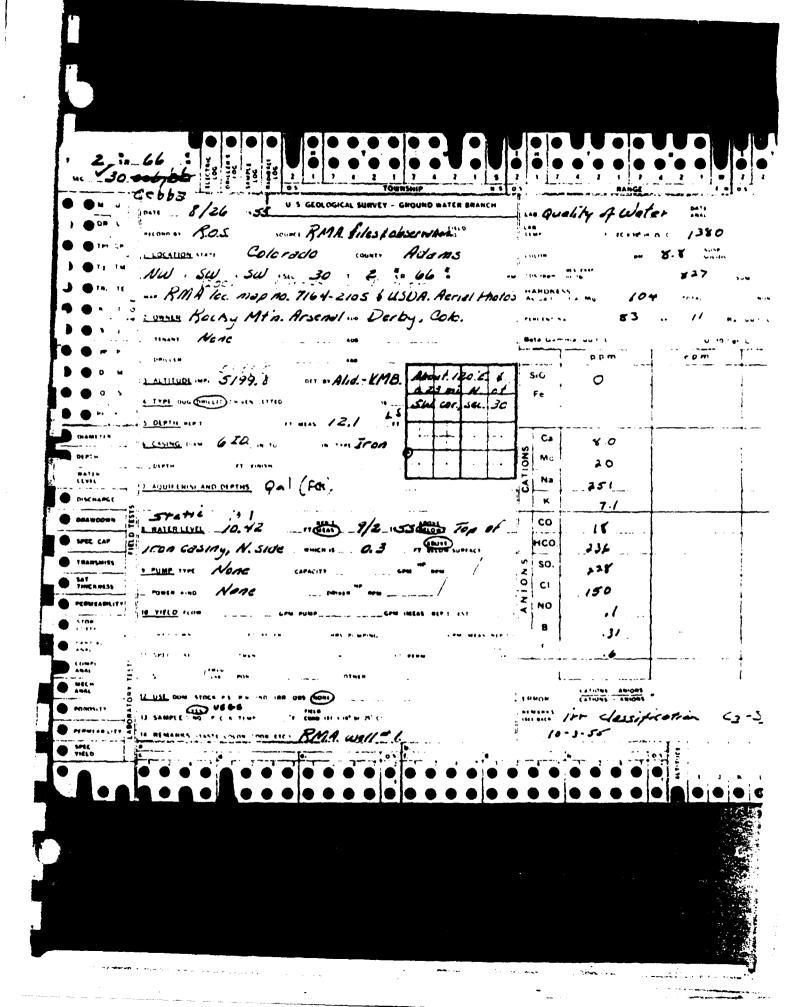
3. Topograph

UNITED STATES

DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY .

WATER RESOURCES DIVISION

WF	ILL SCHEDULE		C2-66-20	0 6661
Dat	n 8/24/55	: 9	Field No.	
	ord by Rex O. Smith		Office No	
	renot dan RMA files é	pers.obs		
1.	Lucation State Colorado	County 🗲	ldams	
	MADRAA well loc-map A	0.7164-2105	farrial p	40105
	NW 1/ NW When 20	0 T 2	× _R 6	٠ <u>٨</u>
2.	Owner Rocky Min Arsene	Address De	rby, Co	10."
	Tenant Novic	Address		
	Driller Unknown	Address		
3.	Topmyraphy qually collin			
	Elevation 11 Mario	, ,		:
	Type Dug drilled driven, bored, je	tiol 19		
	Depth itept. ft. Mean			
7.	Casing Diam 3/2 in to 1	n. Typeicon		, .
	Depth ft., Pinish			
8.		Prom	ft. to	n.
	Others			
9.	Water level 64.11 11 ment.	9/2/1	abuve 7	top of
	iron csq N side	which in C	Trelow)	ett aurthorn
	Pump Type None			
	Power: Kind			• • • •
	Yield Flow G. M., Pump		Meas , Rept. Es	,
• • •	Trans of finance		<u>-</u>	$G(\mathbf{M})$
1.2	Une les Stock, P., RR, Ind. I			
	Adequacy, permanence 900d	063. We	1/	
	Quality		Temp	*F.
	Taste, odor, color		Sample Yes	
	Unfit for		No '	
14.	Remarks: (Log, Analyses, etc.)	Icl no. 3	IM Sec.	e on
, 47	Arsand well loca	tion mas)	•••
		7	-	



UNITED STATES

DEPARTMENT OF THE INTERIOR

GEOLINICAL SURVEY	
WATER RESOURCES DIVISION	
WELL SCHEDULE C2-44-30cbc	,
Date 8/26/55 Pietd No	
Record by REX O Smith Office No.	
Source of data RMA files & pers. obs.	
1) Location State Colorace and Adams	
MapRMA well loc. map 7164-2105 é acria phota	_
T R W	Ł
2. Owner Rocky Mtn Arsenal Address Derby, Colo.	5
Tenant Address	•
Driller Address	`
3. Tapugraphy gently rolling plain	'n
4. Elevation 5/99.5tt below G.S.	0
5. Type: Dug drilled driven, bored, jetted 19	
6. Depth: Rept	اد. م
7. Casing: Diam. 6 in, to in, Type Have. C	
Depth ft., Pinish	6
8. Chief Aquifer Prom ft. to ft.	ł
Others	•
9 Water lood 10.42 1 3 th 9/2/1055 above tap of	7
9. Water land 10.42 1 2 2/05-5 above tap of pelow urface	0
10. Pump: Type NRH C. Capacity G. M	
Power: Kind Horsepower	
11. Yield: Flow	
Drawdown dt. after hours pumping	
12 Une Dome, Store, P. RR. Ind. In Oak Junuser	
Adequacy, permanence peor 505. Well	
Taste, odor, color	
14. Remarks: (Log. Apalyses, etc.) Well no. 1 in SCC 30 out	
des wall los more	

woll by wood stake with orange point in fenced enclosure in SW cor sec. 30 MP top of csq N side per word plug surf. land Elev. view

U S GEOLOGICAL SUNVEY GROUND WATER BHANCH MELOND BY ROS. __ WHELE AMA. FILES & OUSCIVATION W LLOCATION STATE Colorado COUNTS Adams NW " NE " NE " SE 31 1 2 " 66 " " RMA. loc. map no. 7164 - 2105 LOWER Rocky Min Arsendi - Derby, Cola 000 11. 11 4 52-9.6 MA Aliv. - VME. 4 1991 000 (MILE) WAR ATTE 4 5 DEPTH MEP ! Ca & CASING GIAM Ma Na 7 ACCIFERS AND DEPTHS Static 17.7 CO HCO. EYZ" access pipe in well sellen " ! SO. 2 PUMP Jet CI · ... Electric 10 -191 D +1... . T. USE DOM STOCK PS WW (MD -MM ORS (6-74) HONN

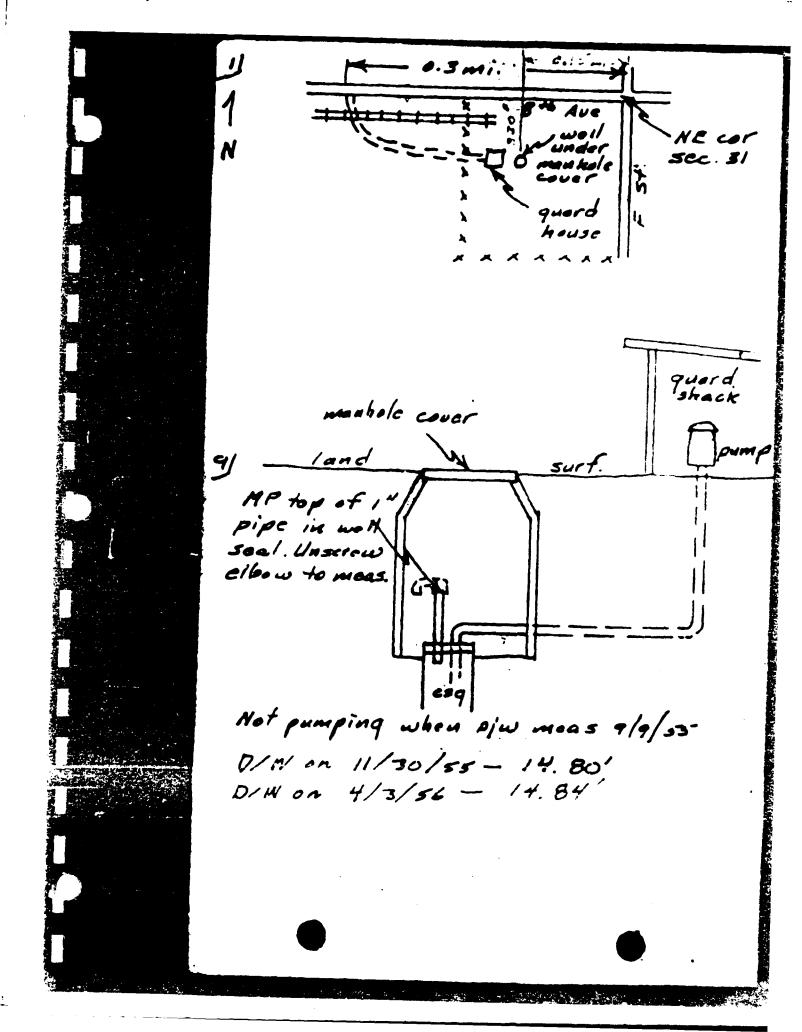
EN KAYSOLT

7-185—July 1936 Revised

UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY WATER RESOURCES BRANCH

WELL SCHEDULE	C2-66-31 aab1
Date 9/9/55	Pield No.
Record by Pex D. Smith	Office No.
Source of data AMA files & field ab	.
1. Lucation: Htate Calorada. County Map MMA MCII 10C, MAP 10 N.E. W. N.E. M. sec. 31. T. 2. Owner: Racky MM. Arsana Address Tenant Nome. Address Driller. Address 3. Tepography Acatly relling plan. 4. Elevation 11. always 8. Type: Dug arilled driven, borred, jetted 19. 6. Depth: Rept. 15. Meas	Derby, Colo
7. Casing: Diam. in., to in., Type / Ca	161
Depth	
8. Chief Aquifer From .	n. wn.
Others	al scalone to a
9) Water look 14.69 11 1991. 9/	9/1955 almore top of
A. MINGES P. P. LOW. MANULAREN I. Which is	ft. below urlace
	G. M.
Power: Kind Elec.	levening - wer
G. M., Pump. S.	$N_{\rm cons} = 10000$
Drawdown ft, after house, .	mpank , G. M.
12. Use: Dom , Stock, PS., RR., Ind., Irr Obs. U.	nused
Adequaty, permaneure Cept. to. be inch	dequite
18. Quality	· ·
Taste, odor, color	Sample Yes
Unit for	17 U
14. Remarks: (Log. Analyses, etc.)	4.4
Crewber needed to pri	I ue manhole
CONEY ANG WALL	



U. S GEOLOGICAL SURVEY - GROUND WATER BRANCH MICHAEL MCS Sound RMA files 1 cheer tos Colorado COUNTY Adams C EDEATION STATE NW . NW 100 ff N . 160 ff W of the cor sec 3/ The real Property of the Cor sec 3/ The Property of the Cor sec 3/ The Property of the Corner of : OWNER Rock + Mth. Arsenal . Derby, Colo. Bata Gamma uu C.L. - OMILLA - ZIABABABA SIO. LALTITUDE (MA) 5223.6 4 TYPE DUG DMILLED DMISER JETTEG 115 DEPTH Mg 43 17 AQUIFERIS AND DEPTHS Qal (FCK) -0 HCO. ICON CASING, E. SIVE WHICH IS ___ 12 576 ********* 345 CI 75 NO. . 3 8 money pro classification

ON KETSORY UNITED STATES (hitcher 1950) DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY WATER RESOURCES DIVISION WELL SCHEDULE Date 8/26/55 . 19 Horord by Rex O. Smith Source of data RMA files & pers obs 1) Location State Colorado County Adams NW & NW Gm 31 T 2 XR Tenant None Driller UNKNOWN 3. Topography gently rolling plain 4. Moratum 5.223. Lit. alove MP-1MB-Alich. 8. Type: Dug drilled driven, bored, jetted 6. Depth: Rept. 11. Mona 28. 7 7. Caring: Diam. 12. in , to . = . in., Tyj= 1201 Depth ft., Platsh 8. Chief Aquifer 9. Water lord 23.87 12 rept. irou Cag E side which is lake nation Power: Kind Horsepower Dennitions - !! after hours pumping 12. Car Dom , Stock, Po , RR , Ind , Irr On J Unuse Co Adequacy, permanence good obs well Temp 13. Quality. Taste, odor, color 0/w - 11/4/57 - 28,92' below NP - OC

CR-66-316661

Pield No. Office No.

MajoRMA well loc. map no 7164-2105 & acrial photos

2. Owner: Rocky Mtn. Arsena / Addres Derby, Colo.

10. Pamp: Type None Capacity G. M.

11. Yield: Flow ... G. M., Pump ... G. M., Mean, Rept. Est. ...

Nample No. VEGS

14. Reperte: (Log. Analyses, etc.) WELL NO. 4 19 505. 31.01

Ave. well by wood stake with orange paint MP top of csq E side land surf

2	66		× U:	• • •					H		• U
	dack of		· · · ·	101	POSMIP		101	PANG			
• • •	P UATE	8/29 .5	u s Geologi	CAL SURVEY	GROUND WAT	TER BRANCH	Qu	ality of W	eter	5041 4941	
an c		Ras		files & col	sernahan	FIFE U	्र ्रक्	1 1111		845	•
● TPI UP		alo					E COCHI	•	7.	אינו א	
	SW	NE . SE	" 3/	, 2	. 66	•	# PM *** ***	60 5 4 + e e 64 + 65, - C	57	9	tom
100.11	8M	A loc. map.	na 7164-2	2105 \$ 21.	SUA. Acr	ial Hod	be AMEN	Ca Mg A	58	• ta.	#2 0
	· LUNNER /	Packy Min.	Arsenal	in De	My, Con	6.	* **********	. 40		12	4
	119491 .			400			Bete Gar	mma assit (u 10-1	9 L
	Length	a		AGO	بــــــ			ppm		e L m	
	1 ALTITUDE	- 5254.6	DET OF	RMA. Che	Agray!	64° A	5.0	! 25	•		
	1 TYPE (DUS)	DMILLED DMYEN IET	186	19	000 5	2 31	*	į.			
	1 DEPTH H.	• •	11 WIAS #	11.2		╅┼		 		-	
	L CASING O	30	ro sa t	in COME.		1-1-1	د، اقار	58			
	DEPTH	FT 1.50\$1				-	Mo Mo	18	}		
	7 AQUIEL PIS	AND DEPTHS	9-1 (FCk))				- 82			į
GW 47361	5	412 16:50	· · · · · ·				_ K	4.5			
	- E BALLBILL	IL _18.32			36 m	Top al		0	-	-	ļ
	_	wsing, E. s	INE amonis		of of the	TUMP AL I	MCO,	300			
347	, 11	None	CAPACITY		.cru "	<i>i</i>	SO,	9/			- ;
7-0-0-0-1		None	pen	vis "" sou			- Z NO.	43	1		
	10 May 10 M	•	1,546 5 45	67		181	, ∢ ; ~0 ,	سور ا			
	, <u></u>	• ••	1986				·• ···· •	.22			•
	THE SPEC CAP	18444		-	7 24.50			1.4	-		-+
	.E.	, 49 mile		01 ms #					.1 .		1
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O TIME		**************************************	TIC DATES	W/ 191	737	a per	and with a second con-		- 1	**	•
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1.40	proceed the second seco	Achieve the section	A STATE OF THE STA		Triggree et al.						
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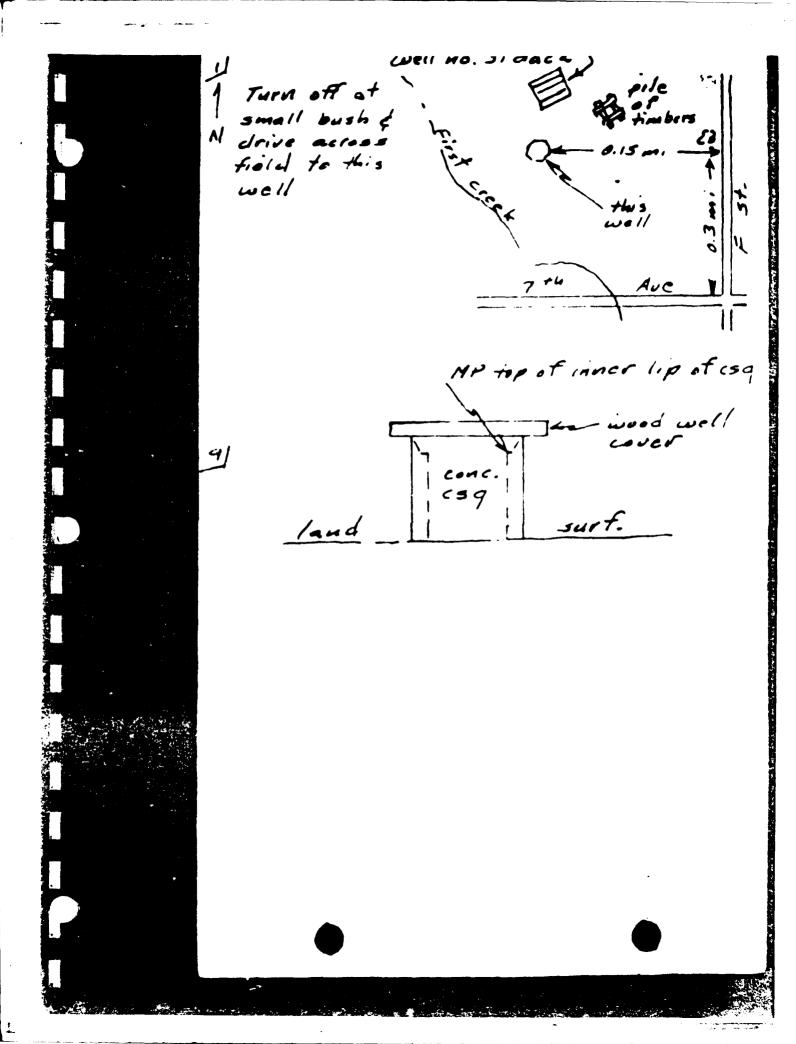
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9-185 (Cartober 1950)

UNITED STATES

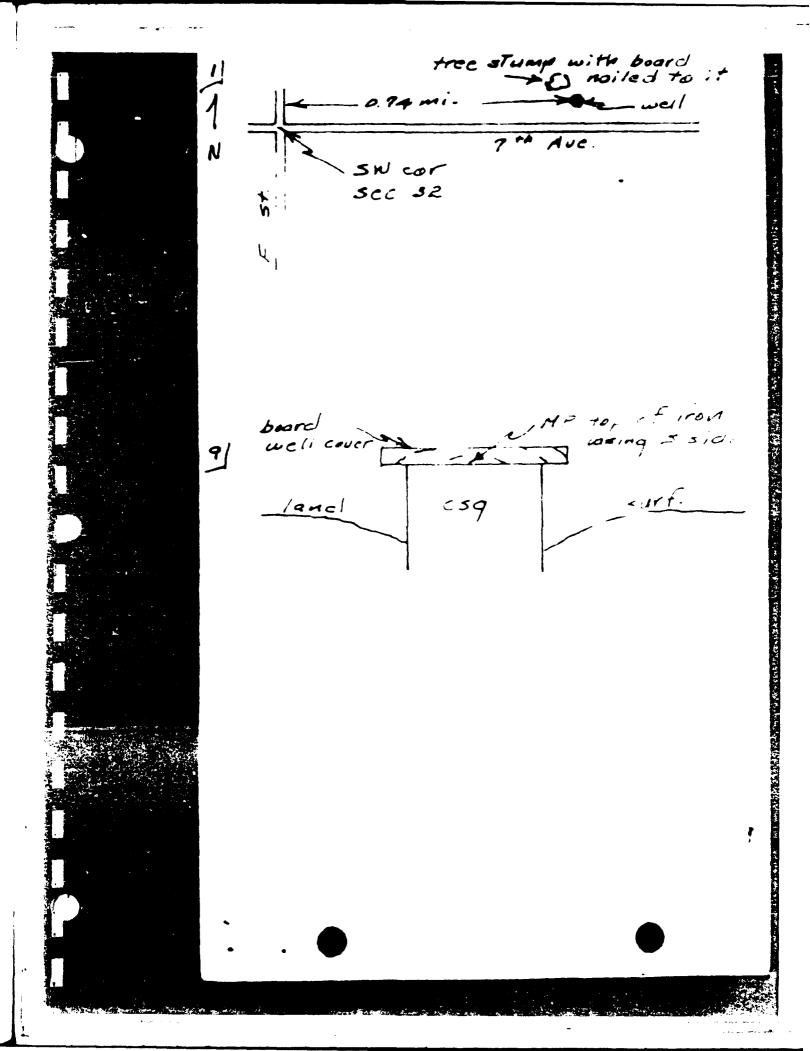
DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

WATER RESOURCES	DIVISION	4		
WELL SCHEDULE		C2-46	-31 d	aci
1 min 8/29/55	14	Pield So		
Keepelle Rex O. Smith		Office No	,	
Source of data RMA files & pers.	065			
1] Location: State Colorado (
				14
Map/PMA.well loc. map no.				169]4 **
NE & SE WAR 31 T				W
2. Owner: Rocky Mtn. Arsenal Add			A (0.:.	
11.6	drewn .			
	irem —	·		- 4
3. Topugraphy Meally flat plain				W
4. Pleation ft. above below	•			18
5. Type: Dug drilled, driven, bored, jetted				13
6. Depth: Rept. 11. Mean. 41.				13
7. Casing: Diam. 30 in , to in , Type	Conc	,		13
Depthft., Pinish				74
8. Chaf Aquifer P	rom	. It. w	-	. ft. 1
Others	/	• • •		_
9 Water level 18 32 11 rept	8, 7, 10	Arcion.	TOP	of
Concrete cag. E. side wh	ach ie 🕏	K 10/0	Halom Hall	face
0. Pump: Type No. Capa	neity	. G	M T	
Power: Kind	Horsep		-	
1. Yield: Flow G.M., Pump	G,M,N	les Rept.	Est	
Drawdown ft. after hour	re primping	: ,	G	. M.
2. Use: Dom., Stock, PS , RR , Ind , Irr Die				
Adequacy, permanence 9000 66	س، حر	ell		
3. Quality		Temp		^F
	٠	ample Co	USG	, S ,
Taste, odor, color	•			
Taste, odor, color Unfit for			• • • •	



m/32 dcddl MICOND ET R.O.S _____ SOUNCE BMA. Files & Observetration Colorado __ COURTY Adams SE " SW " SE " SE _ 32 1 2 1 1 66 1 MARDNESS ALL PROPERTY ARE TIGH - 2105 1 ZISDA. Acrial Propos As Co Co Co : OHNER ROCKY Min. Alsend ... Derby, Colo. man None ppm S.O. 28 Ca 60 DEFTH 43 BATER 72 7 AQUITERISI AND DEPTHS . CAL (FCK) DISCHARGE 6.5 ---co. 0 SPEC CAP HCO, 138 T#485MISS so, 116 SAT TIME HAESS CI 50 PERMEABLITY NO. 6 . 20 1.0 ir classification (3.3)

ONKETSOFI UNITED STATES (October 1950) DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY WATER RESOURCES DIVISION C2-66-32dde WELL SCHEDULE Date 8/29/55 . 10 Pield No. Record by Rox C Smith Office No community of the RMA files & pers obs 1 Lucation State Colorado Court Adams MANIAMA well loc. map no 7164-2105 & acrial photos SW & SE I 32 P 2 XR : wan Rocky Mtn Arsenal NumDerby, Tenest None Driller Unknown 3. Topography gently rolling plain 4 Elevation 5295. 1st below M.P. - VMB-Alid 5. Type: Dug drilled, driven, tweel, jetted 6. Depth. Rept. ft. Mens. 492 ft 7. Casing Diam 24 : to in Type Wan Depth - ft , Pinish 8. Canf Agarfer Press The fo Others 9 Water level 31-20 11 Topt Iron csq. 5 side which is of 10. Pump: Type None Capacity Power: Kind Horselmwer 11. Yield: Plow M., Pump G. M., Meas., Rept. Est 12. Use: Dom., Stock, PS , RR., Ind., Igt Obe. UMUSCO. Adequacy, permanence 9000 obs well is Comment Sample WS65 Tante, odor, color Unfit for 14 Remarks: (Log, Analyses, etc.) Well no. 3.11 Sec. 32.09 Accord well loc map . About & Pt. SE of board miled to tree stump



ON Keysort
UNITED STATES

DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

WATER RESOURCES BRANCH c2.67.22 acd1

WELL HUMETATE	CZ-67-22 ac 01
	19 Plent Se
Record by ROS & LAH	Office No.
Source of data R.M.A. file & Pers.	068.
1 Location. State Coloredo Co	unty Adoms
Map R.M. A. Well-loc. Map	No. 7164-2105
_SW . 16 NE 16 mc. 22 T.	
2. Owner Rocky Mtn. Arschal Add	rem lechs, Colo.
Tenant No.4.6 Add	
Driller. Unknewn Add	ress
3. Topography gontly rolling ple	rin The
4. Bloodson ft shove	e e
8. Type: Dugarilled driven, bored, jetted	10 22 61 3
8. Depth. Ript 500 ft. Mean 178.	
7. Caring Diam 4 /2 In to In Type	iron
Depth ft , Finish	
	om - 11 to - 11
Others	,
of Water level 82.0811 rojet 8	of Thelian Top of
iron csq w side who	chin 4.2 It almost without
10. Pump: Type NONC Capa	
Power: Kind	Hornessiwer
11. Field: Flow G. M., Pump	G. M., Menn, Rept Est . T
Drawdown ft. after hour	* pumping G.M.
12. Use Dor, Stock, PS., RR., Ind., Irra Obs	unused
Adequacy, permanence	
18. Quality	
Taste, odor, color	Temp. P.
Unfit for	
14. Remerke: (Log. Analyses, etc.) Well He	. 3 in Sec. 22 on.
Arsenal Map, Near wes	sternmost of two.
treas an sinder of c	lump of troos
•	A A.A.

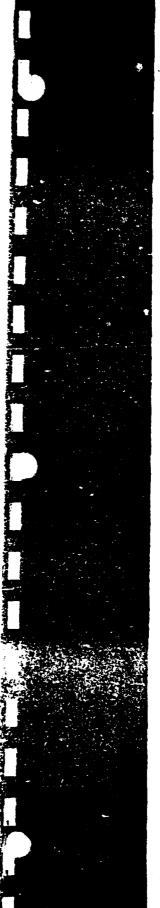
22 acd, 33 33 38 88 ··· 8/3//_ ...st INCOMO OF POS. & LAH SOURCE RMA FILE & Fors Oblin LOCATION WATE COLOPE SO COUNTY ASSESS SE & SW NE Mu 20 1 2 8 67 6 RMA Well- loc map No. 7164-2105 L'ORNER ROCKY M+n. Alsen alim Derby, Colu ... None DALLIN UNKNOWN 3 ALTITUDE WE 11 178.5 ... About 600'w 7 AQUIFERIS AND DEPTHS ĸ LANGELLINE 82.02 " 2/8/ 1105 TOP OF HCO. FIRM CS9. W SIDE AMENIE 412 50. O THE D TO LERON 12 113 DOW STOCK PS HIT. IND ING (S) NOVE ... UN WEEK

•••••••• •••••• & DISCHARGE LEVEL ABOVE M.P. S IMPUT TO MISTON CISC PLE + 1 34 -12 OVER ALL EFF - HP. PUMP (If - MP. Den V1 4 SEASON FULL . S FUEL CONSUMPTION REMINES Well #3 10 Sec 22 OR RMA MAP

p149 P/W 88.35 ON 9/6/55 - LAH

22 ddadd minor a LAH. & RDS. some RAH. Ales & Ros. des. LICKATION IIII Blosado SE SE ... 22 2 2 675 ... RM.A. well location map # 7164-205 Leane Rocky Min. Throndin Desby, Colo HORE . vous Unknown LANTITUDE OF SITTI SiO SE SAC CO Ca CASING DIAM 36 IN TO Na. 2 AQUIFERIS AND DEPTHS Plu 2216 mass. H/L/s Water MP. DE co. L HATERLEVEL STATE 24.36 11 WELL 7/6/185 MICH TOP OF 1.0 _ 11 - NOTE SUPPACE HCO, Core. coming N. Solomen 80. PUMP TON NONE CONCITY , NO 19 Y11 2 -HI SPEC CAP IL USE DUM STOCK PS WA IND IN THE DED HONS UM USED EMMON

L O G (5) MCT SPEC CAP 5114 --# IMPUT TO MUTUR (SHE REV *1100 IE OVER ALL EFF . HP. 45 - 55 5 IS REMARKS Wall AO. 2 in SEC. 22 UN HESEAR WEN Losation Mag.

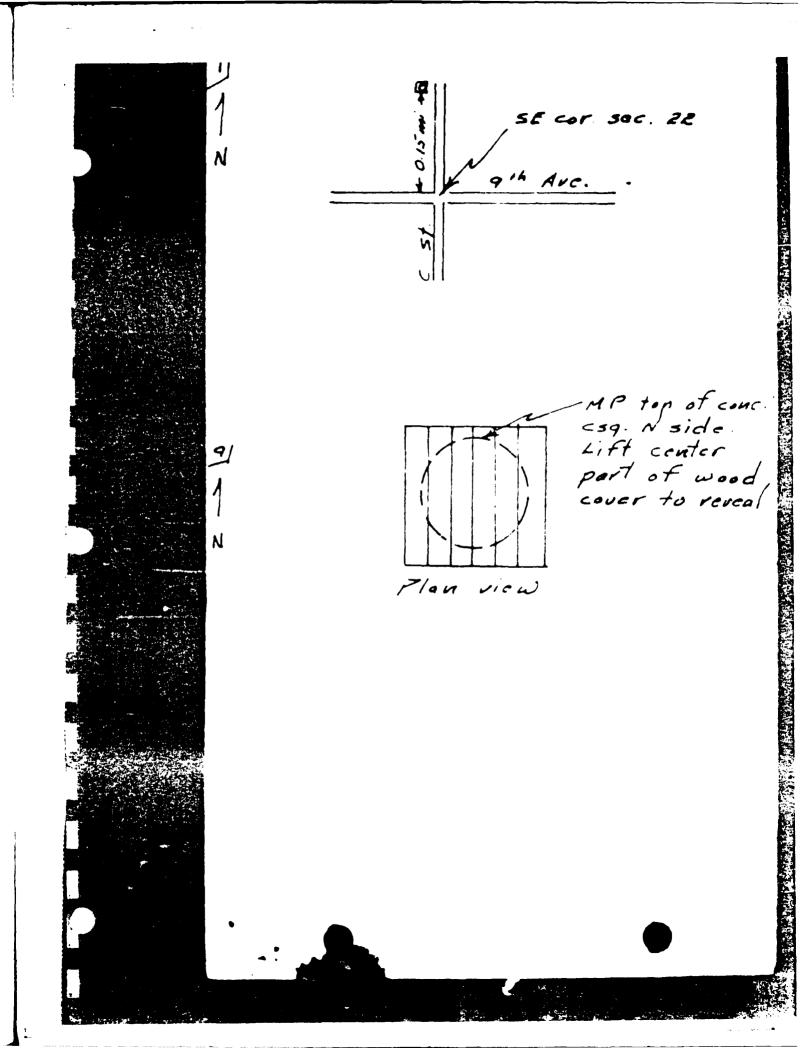




UNITED STATES

DEPARTMENT OF THE INTERIOR MA-\$7

GEOLOGIC	AL SURVEY
WATER RESOU	RCES DIVISION .
WELL SCHEDULE	C2-67-22 dda!
Pate 8/24/55	, 19 Pield No.
Record to ROS & LAH	rea No
Source of data RMA files 1	pers obs
1 Location: Heate Colorade	O County A, Clare15
MANAMA well loc- ma	11 no. 7164 - 2105
SE K SE KNC 2R	
2 Dunn Rocky Mtn. Arsenol	Address Derby, Colo-
Touant None	Address
Driller Un Known	Address
3 Tojugraphy gently rolls	ng plain
4. Elevation 5/7.7.1. the Indian 14	PVHB-A/O
5. Type: Dug drilled, driven, bored, jets	ted 10 ab
6. Depth: Rept. ft. Meas.	32.3 ft.
7. Casing Diam. 36 in , toin	Type GOAC
Depth 33 tt., Pinish	
8. Chief Aquifor	Prom. 11. to 1t.
Othern	/ ·r
9. Water level \$4.36 tt rept.	9/6/1055 above top of
concrete cag. N side	which is 1:0 _ ft. below surface
10. Pump: Type Name.	Capacity G. M
Property Report	W 1
March March Commercial	e e Car
Drawdown - ft. after -	week and the second of the sec
12. User Dom., Stock, PS., RR., Ind., Ire	I Juused
Adequacy, permanence 400d	obs well
13 Quality POOF	Temp .*F.
Taste, odor, color Staquant, f	Foul oder Sample No
Unfit for human consum	tion
14. Remarks: (Log, Analyses, etc.) We	all MO. 2 101 Sec. RR OH
Assaual wall loc	map
Dlui - 11/4/57 - 27	16 balow Mr - OC
	office 10 10001 .

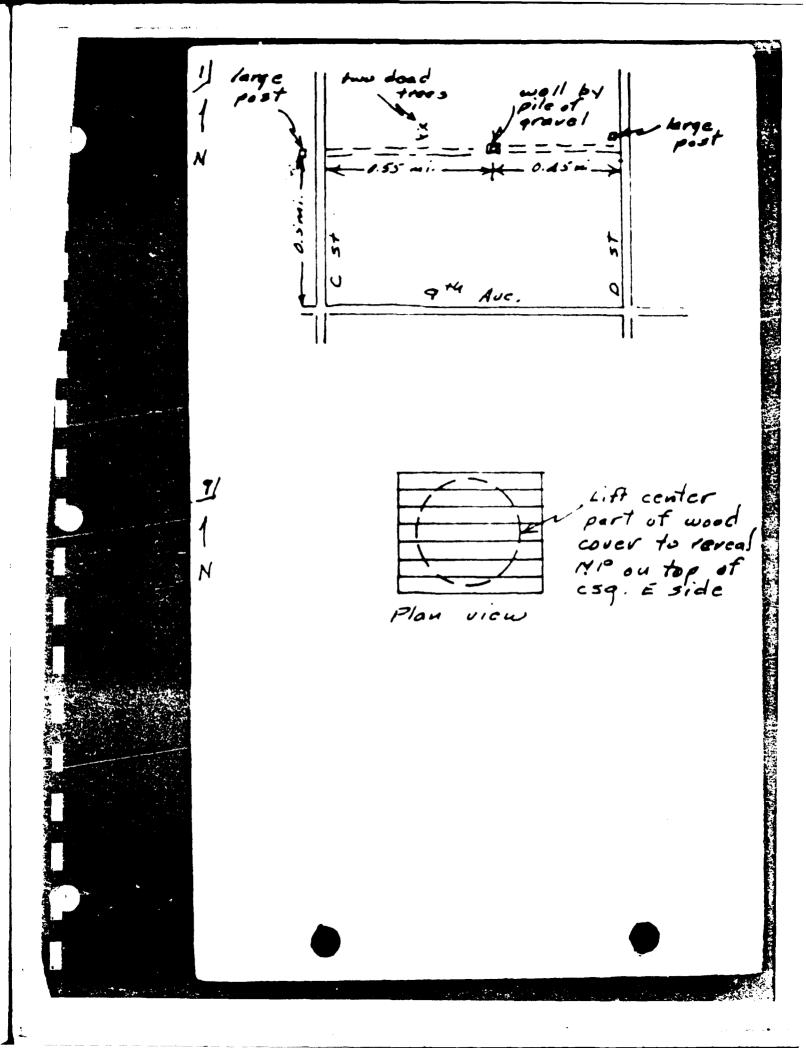


U S GEOLOGICAL SUNVET BECOMO BY R.O.S. & LAN SOUNCE RMA, FLIOS & PENS. Obs. 4011 LLOCATION STATE ... COUNTY 5W . 5W . NE ... 23 ... RMA. " 7164-2108 0 5m. N, O. 45 m. W. C. " EUPL" L CONER BOCKY Mta Arconal ... Derby, Colo . TERANT ... Mid 1 ALTITUDE -- 5,186.2 ur . VAB & PAS. 4 TYPE DUG DELLED DELVES JETTED 11 2000 S DEPTH MEP T Ca CASING DIAM 48 Me Na 7 AQUIFERIS AND DEPTHS SINC MARKET Static 35. T. 10 11(1) Eich E edge conc eng 10. 9 PUMP TYPE ---CI -NO ---COMPL **WECH** S 12 USE DON STOCK PS HA IND IN THE TO HAVE ... LAN WS C d P.RC 3411 - 100K

•••••••••• • • • • • • • • • • • • • • L G (S) ---SPEC CAP _ 4 ISCHANGE LEVEL ABOVE M.P. IP TIPE _____ MARE HF. -OVER ALL EFF - HP. --1 410 411 MINARES Well #3 IN Sec 23 on Arsenal Map

هند الله الدروانيا

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY WATER RESOURCES DIVISION C2-67-29 acc1 WELL SCHEDULE Dato 8/24/55 . 19 Field No. Record by ROS & LAH Office No. Source of data R.M. A. files & Pers. Obs. 1 Location: State Colorado County Adams May R.M. A. Map No. 7/64-2/05 SW & NE 4 mc 23 7 3 R 2. Owner: Rocky Mtn. Arsenal Address Derby, C+10. NONE Tenant Address Driller Vakrown 3. Topography gently rolling plain 4. Elevation 5/86. 2 11. above Mp (UM 5-A/d 5. Type: Our drilled, driven, bored, jetted 19..... 7. Caring: Diam. 48 in to ___ in Type COAC. Depth ____ ft. Finish ____ 8. Chief Aquifer _____ ft. to 9 Water level 37. 25 11 rept. 9/6 1055 above Tap A F E Edge Cove Csg which is A5 11 above 10. Pump: Type North Capacity .___ G. M. ___ Power: Kind Horsepower 11. Yield: Plow ... G. M., Pump ... G. M., Meas . Rept. Est. G/M_{\odot} hours promping 12. Une: Dom., Stock, PS, RR, Ind., Irr. Obs Unused Adequacy, permanence 9000 absence! Taste, edor, color Sample Yes Unfit for 14. Remerbe: (Log. Analyses, etc.) Well No. 3 11 Sec. 85 en DIW-11/6/57-38.25 below MP-DC Arsenal Map



23 add J. Chi 8/24/. 55 U.S. GEOLOGICAL SURVEY GROUND WATER BRANCH www. LAH. & ROS. ... RMA. files & Fall obs. LIGHTION WALL COLOREDO COURTY AdaMS LOUNCE Rocky Mtn. Assert - Derby , Colo SiO, Fe Ca LE CALLEG MAN 42.5 DIN 10 IN THE GOAC Mg Na . 7 AQUIFERISI AND DEPTHS ĸ CO E RATERION 22. 24 11 7/6/105 11 15 01 HCO. 80. N 0 - N STRUMP IN NOAC CI NO . 10 711.0 1.00 an ins in the more _ Una rad ERROR

. L O G (S) co _ ____ acc't ___ A DISCHARGE LEVEL ABOVE M.P. & IMPUT TO MOTOR DISC MIN TE OVER ALL EFF - HP. --GP TIPE FUEL CONSUMPTION -ACRE FEET PUMPED IS REMARKS WEN NO. 7. IN SEC 23 OF ASSENDED WEN DE.

9-185-July 1938

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

WATER RESOURCES BRANCH

WATER RESOURCE	ES BRANCH
WELL SCHEDULE	C2-67-23 add
Date 8/24,55	, 19 Fe
Record by ROS & LAH	Office No.
Simirco of data RMA files & file	eld obs.
1 Location: Heate Colorado	County Adams
Map AMA well location	.map 40. 7164: 2103
JE & NE 4 me 23	
2. Owner: ROCKY MEN. Arsena N	direct Darby - Colo
Tenant Name	ddress
Driller Unknown A	
3. Topography gently rolling &	plain.
1. Elevation 51 66 aB. It, above MP.	2
5. Type: Dug/drilled, driven, bored, jetted	19
ti. Depth: Rept. 34 1t. Mean 56	0.6 a
7. Casing Diam ARLEIN, to tu., Ty	Ir Conc
Depth . ft., Finian	
4. Chief Aquifer	From ft +
Others	and the second
9. Water loop 22,24 11 rept	9/4/1055 Above top 0
Chalerete cald wo ande "	which is 27 ft below surfa
10. Pump: Type None	spacity. — G.M. —
Power: Kind	Horsepower
11 Yield: Flow . G.M., Pump	G. M., Meas , Rept. Est.
Drawdownft. after - his	ourse primpingG. ?
12. Usa: Dom., Stock, PS., RR., Ind , Irr Ob	J Unuscal
Adequacy, permanence 9000	b=
13. Quality POOF	Temp
Taste, odor, color STARMANT.	Sample Yes
17-04 (
14. Remerks: (Log, Analyses, etc.) Wall an Arsenal well loc	40, 7 in sec. 23
on Arsenal well loc	· map

1/4 cor. sec. 23 MP NO 1 MP no 2 top of wood well conter top of cag. w side MP changed 10/3/55 by ROS. MP No. Z is top of wood well cover at center 1.0 Fl. above 150 and 0.3 ft. above MP NO.1

	100 = 51; 1/04		LOLOGICAL SURVEY	\$95HIP	11: G	uel water	•	
				iodd obs				37.
	. a.dea (10)				•		7 7	
	SE NE	S(2) 200	of we of se	7.67 1 mr sec 23			217	•
	Lane Rocky				** ** · · *	97	19	₩.
			***		6 00 000 000 000 000	•		•
		~	# MP			•	* E **	
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MP7 -	21.1319G av. 5	10	· ··· 1702			/. 5		
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	in same in a co	. 11 mr	me -64 + 40° ≒- /\ (10-3-66		
1000			,		صحبریمی داقیم پرستان		11	•
		000	000		0 0 0			, _

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mum. Well #5 m sec 23 on Arsonal well loc. map 7164:3195 . Pump installed on well-unable to

1

9-185 ((hetriber 1950)

UNITED STATES

DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

GEOLOGICAL SURVEY					
WATER RESOURCE					
WELL SCHEDULE	c2-67-23 bad1				
Date 8/24/65	19 Pield No				
home to WAH & ROS	10 g S				
Some Con RMA Fles & +	he was				
1 long men se plande	- Jane -				
1 1 - ann St	5/1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -				
NE WWW 23	a s x c x				
2 Owner Rocky M+n. Arsenal					
•	Allman TIPY, EN				
Terant	\$ 1954 \$ 1955				
Drives 3. Tophyraphy very gently conting					
4 Floridum (1 min se	0 1				
5. Type Dag Arilled driven bornd, jetted	30				
6. Dojah Rept 520 't Mean					
•	niron h				
Depth ft, Pinish					
8. Chaf Aquifer	Prom to be				
Others	0				
9. Water level ft rept.	19 Almin top of				
Cog 5 side under jump base	which in				
10. Pump: Type Harrid & Millian C	'apacity (1 M.				
Power: Kind	Horsepawer				
11. Yield Plow G.M. Pamp	G. M., Monn., Rept. Ent.				
to after	Market Control of the Control of the Control				
12 Co. Domy Stock, Pr. A L. Date for	भिन्नु 💎 .				
Adequacy, permanence					
13. Quality	Temp F				
Taste, odor, color	Sample No.				
Caft for					
14. Remarks: (Log, Analyses, etc.) K/C//_	ware in sec. 25 on				
Arschal well loc men	17164-2105. Pump				
installed on mell sin	to Meas D/W				
e. 6 unionalist relation					

. S GEOLOGICAL SURVEY -- LAH / POS -. RMA files & persions " cours Adams SW ... 23. -- RMA Well loc map # 7/64 - 2106 10144 LUNDER ROCKY Mtn Arsonal ~ Derby, Colo. MINT unknown ppm SIQ, 1 minis - 3/18.4 OU IN VINUE TOOK Fe 45 · Ca Mg Na 7 AQLIFERIS AND HEPTHS ĸ co 1/6 " sedio top of HCO. \$0. , Z Ci -----NO. 10 VII ... (47104) ARIONS -- -- LED more CHARGES , formerly does I HACH

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1 DATE WELL NO O O O O O O O O		D LOG
2 8V COACCT		
	1=	\equiv
4 DISCHARGE LEVEL ABOVE M.P		
S PUMP TYPE		
4 MOTOR eq		• -
7 METER NO v AMPS		
PEAGINGS - Qui	į	
(#)		
Diff ()	4	p= = ≠
8 INPUT TO MOTOR DISC BEV TIME		in = on
9 Km. a		Pa indi ∴ndi
110 MP. ***********************************		
11 HPs =169 =199		ger in more
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12 OVER ALL EFF - HP -		
PUMP EFF - HPa - H		
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UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

WATER RESOURCES BRANCH CR-67-23 ccal WELL SCHEDULE

1. Jeousion: State Colora do County. Adams

Date 8/24/55		, 19	Field No	
Record by LAH & ROS		•	evin . ·	
Source of data R M A	char 6	06 t		

Map R.M. A. well lac mas no. 7 SW 4 SW 4 mc 23 7 2	
2. Owner: Macky Mtm. Alsena Address	Derby, Colo
Tenant No MC Address	
Driller Unkaawn Address	
3. Topugraphy Mearly flat plain	
4. Election	
5. Type: Dug. drilled, driven, bored, jetted 19	43
d. Dopth: Ropt. 43. 11. Mens 43.0 ft	ı. :
7. Caring: Diam. 2.4. in., to in., Type ICak	1
Thereth - 4 Mills	171:

8.	Chief Aquifer.		 From:	=ft. to	 , ft
	Others		 		 .
_ 1		4 - 17	 	alore	

9.	Water level 45.67.11 rept.	9./6	1955.	www. tap. at.
	Weer look 4567 11 more. Wald wall rinn # 51de	which is.	21	11 Doye surface
	. <i>1</i>			0-0 aQ W

10. Pump: Type	None	Capacity	G. M
Power Ko (~~~ *	**	
O. Vald Phys	- Contraction		<u> </u>

Dimadowii	. II. MIC:		. (1. 31,
12. Use: Doin, Stoc	ek, PS., RR., Ind	I, Irr Obs. Unused	
Adamaas		lahe well	

13. Quality	Temp	•7 ,
Taste, odor, color	Remple No	

14. Remerbe: (Log. Analyses, etc.) Woll. M.C. L 18 . S.C 23	
R.M.A. Hop.	

MP top of wood well hotch rim Plan view 2 other wells old imig ditch now of bushes SW cor , sec. 23 4th Ave. 0.3 mi.

U.S. GEOLOGICAL SURVEY GROUND WATER HHANCH The same of the sa 2040 LLOCATION STATE CO/O court Adems 74 Will SW 15W 4 NE 1510 24 1 2 1 67 1 PM TUNINGMI W. S. T. 2,930ft.N; 2,420 ft.W. of SEcorsectification. w. 710 2 ORMER Rocky Mtn Arsenal Derby, Colo. 38 ... DEILLE SiO 1 ALTITUDE INF. 5./6 D. L CASING DIAM 185 __ourth 22 ... it timin perf. bettem . 9 " 60 AQUIFERISI AND DEPTHS Sand | gravel 198 Dec_19427777 L.S. 0 HCO. 302 " PUMP ITM (MYOPS) CY !- CAPACUE men un gaså en ginguil 8.4 14(8

an Koysert

9-185 (Cirtuber 1990)

UNITED STATES

DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

WATER RESOURCES DIVISION			
WELL SCHEDULE		C2-67-2	SACCI
Date		19 1	
Report to REX C	7. 5.4, +h	e effe.	. •
Source of data 17. 14	A const u	1.09 110 7164	6104
1 Landon State C	2010	· · Adu.	•
Map.			
1.4	, - ,	∑ 10	
2. Owner Rocky	Mu Arsona/	Addison Strily	رات "
Tenant		Address	
Driller		Nofofpense	
3. Topography 900	Hr rolling	plain	
3. Topography 900. 4. Elevation 5/40.	INATION NSL	(Rept)	
5. Type: Dugfdrilled			0
6. Depth: Rept 2	2 11 Mean	/1	
7. Casing: Diam. 8	in to in T	ye-1104	
Depth 22 ft.	Finish pert. both	10-18AL	
Depth R. A. 11.	end & grave	Cleom , 11 a	10 22 II
Others			
9. Water level 11	reut	DCC 194R	19 X 5
	• • • • • • • • •	which is	It halism auriace
10. Pump: TypeCyl	inder (Myers)	Impacity 25	G. M. Rept
Power: Kind 6	as engine (cu	Skalle Torsepower	3
11 Yield Flow		G. M., Meas., I	
1 - 4 × 1 × 2	100 Fr	• <u>*</u>	$\mathbf{G}(\mathbf{M})$
Contract Contract	19 10 / 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Vicinian perman	- (* 14* *		
13. Quality		Tenq	<u> </u>
Taste, odor, color		Sample	Luses
Unfit for			
14. Remarka: (Log, An	ialymon, etc. in the maps of the 1916	11 Ne 39	C. L. J.
			, sagas entrestra

UNITED STATES DEPARTMENT OF THE INTERIOR .

	CEOLOGICAL S	MIKYET
مناسب المناسب	WATER RESOURCE	_
WELL SCHED	ULE	C2-67-24 6CC1
Date 9/2/5	·5	10 Field No
Brand by MC	c 0. Smith	Office No
Bosses of data /	PMA files & fie	eld obs
	Colorado	
1. Leader Did		na. 7/64-2/02
_3¥¥	NW year 24	T 2 3 4
		some Derby, ala.
Tunes Ma		ddress
Dom Lin		ddren
& Topography.	monely flat pla	4101
A The Day	tribed, driven, bored, jested	.10
& Deed: Rept	/ N. Neas .et	2.2 a
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11. Plots Plow	Q.M., Pomp	O. M., Mose, Ropt. Est
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12. User Drem ,	Much. PR. RR. last in A	a ununce
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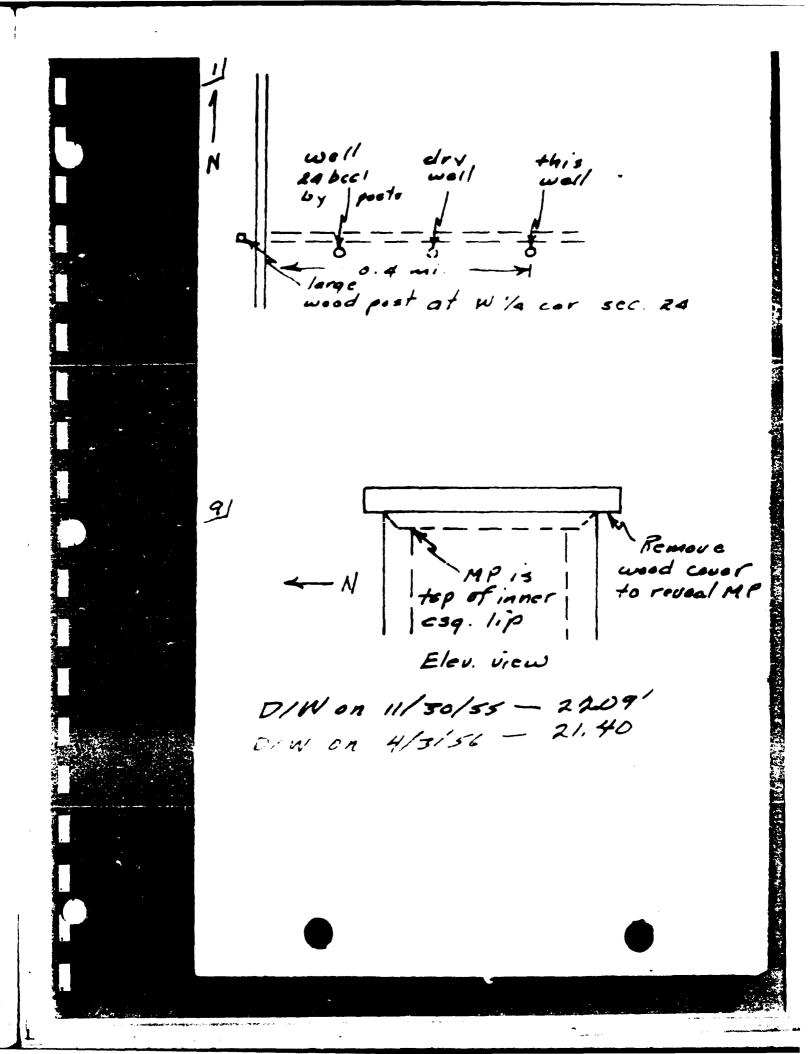
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10 miship	nance .	100
1 S GEOLOGIE AL SUNVEY GROUND WATER BRANCH		(40 7 8 4 4 4 1
R.O. Smith RMAfiles of field obs."	A Commence of the second	1510
1 OTH UP LEVE MENTER Colo. 1000 Adams	A 194 com	74 ::
• • 11 14 35 . 35 . NW . 24 . 2 7.67 .	HAPDNESS	1060 - 9 53 mm
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O N W WAS PAS 24.70 IT N	510 26	
1 S Belled	- fe	1
O DIPTH SIET 11 SS.3	PO4 0.1_	
CASING DIAM IN 10 IN 1991	Ca 119	
22 27000		
DISCHARCE	3 Na 160	
Static 22.0	co	
Leancies 22.67 11 with 3/2 185 below top of the care and the concession of the conce	HCO. 287	
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equation of the second of the	NO II	
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The second secon	• • • • • • • • • • • • • • • • • • • •	
CT PER CT	(ATION) ANION	•
A STANDARD CONTRACTOR OF THE PROPERTY OF THE P	THE SHAPE C3-3/	•
D OF THE STATE OF	10-2-55	was sangaway - garang mangan
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Delta Sett No. 1 Will once per per cer 1 Will once the per per cer 1 Will once the per per cer 2 Will the training the per per cer 2 Will the training the per per per per per per per per per pe						
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THE SEC 24 OF ASSERTION OF SEC 24 OF ASSERTING OF SEC 24 OF ASSERTIAL WELL If athanas Well #4 in Sec 24 of Assertice well OCC. Map D/W on 11/20/55 - 22.09' D/W on 11/20/55 - 21.40					· ·	
IN THE PURPLE OPERATION OF A LIGHT POPER TO OPERATION HES OPERATION ACRE SET PUMPED TO OPERATION HES OPERATION ES OPERATION TO OPERATION HES OPERATION HES OPERATION TO OPERATION HES OPERATION	0.11	:=tact			• • = ~ •	
12 OVER ALL ETT - MP. 12 OVER ALL ETT - MP. 14 MPM PUMP 15 TUEL CONSUMPTION 16 OPERATION HES 16 ACRE FEET PUMPED 16 ACRE FEET PUM	. B INPUT TO MOTOR onc	-11	1101		,	-
11 MP	1 KW, -					
11 MP	10 HP1 -			<u>, , , , , , , , , , , , , , , , , , , </u>		
PUMP ETT - MP. FUMP ETT - MP. FUMP ETT - MP. TO PUMP ETT - MP. TO						
FUMPER - MP. 10 FUEL CONSUMPTION GEN SEASON FUEL 11 OPERATION HOS DOTTES 12 ACRE FEET PUMPED 13 ACRE FEET PUMPED 14 ACRE FEET PUMPED 15 ACRE FEET PUMPED 16 ACRE FEET PUMPED 17 ACRE FEET PUMPED 18 ACRE FEET PUMPED 19 ACRE FEET PUMPED 19 ACRE FEET PUMPED 10 ACRE FEET PUMP		enconsum en TTT Consum	114	· · ·}=	چند د سو چند د مو	
PUMP ETT - MP. 10 PUMP TOUR 11 FUEL CONSUMPTION 12 OPERATION HES 13 ACRE FEET PUMPED 14 REMAINS WELL MAY IN SEC 24 OR APSERRI WELL 15 OC. Map 16 OC. Map 17 ON ON 11/30/55 - 22.07 18 ON ON 11/30/55 - 21.40	Las cours are HP				jan	-
TO PREMIUM DETERMINED TO DEPRATION HES POSES TO ACRE SEET PUMPED TO REMAINS WELL HAS A PREMIUM WELL TO C. Map TO C.	THE OVER ALL EVY - THE	-		i]		
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TO DERATION HES DE						
TO OPERATION WAS STATE PROPERTY OF THE SEASON FULL OPERATION WAS POSES TO ACHE FEET PUMPED	TE RPM PUMP			- + -		-
10 OPERATION HOS 11 ACRE FEET PUMPED 11 11 11 11 11 11 11 11 11 11 11 11 11	15 FUEL CONSUMPTION	GPH				
P. MENNIS Well # 4 IN Sec 24 ON Arsenal Well - loc. Map - D/w on 11/30/55 - 22.09' - D/w on 4/3/56 - 21:40	TO OPERATION HOS					
Parmus Well # 4 in Sec 24 on Arsenal Well loc. map D/w on 11/30/55 - 22.09' D/w on 4/3/56 - 21.40	ACRE-FEET PUMPED					
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9-185-July 1935 UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY WATER RESOURCES BRANCH C2:67-24 bad1 WELL SCHEDULE Date 9/2/55, 19...... Field No..... Record by Pex O. Smith s meet data RMA files & field obs 11 Location: Hato Colorado County Adams Map & MA well loc map 10, 7164-2105 SEXNWX ... 24 T 2 XR 67 X 2. Owner: Racky Min Arsenahddress Derby, Colo. Tenant None Address Driller LINKMALLIN, Address 3. Topography MCarly Flat plain 1. Floration \$160.8 to Bounds (VMB-A/id) 5. Type: Dug drilled, driven, bored, jetted 19 6. Depth: Rept. 11. Meas. 33.3 1t.
7. Casing: Diam. 24. in., to in., Type Canc. Depth 34 1t. Finish 8 Water level 22 67 11 rept. COUL. CS9 N Side which is 0.7 10. Pump: Type None Capacity l'ower: Kind Horsepower ... 11. Yield: Flow G. M., Pump ... G. M., Meas, Rept Est. 12. Use: Dom., Stock, PS., RR., Ind., Irr Jobs. J. UNU 3Cd Adequacy, permanence quad abs. well. 13. Quality ... Sample Tra USGS Taste, odor, color 14. Romerke: (Log Analyses, etc.) Well no. 4 in SCC, 24 on Arsonal well loc. map P/W - 11/4/57 - 20.18' below AP - DC

M. De



neum or R.O. SMITH water RMA files & pars . Obs NE : 4W 2 2 3 2 5 67 : corner Rocky Mtn. Arsenal ... Derby Colo. .. Henry NORE__ Dente Unknown 5,190 \$ Tapo S.O. 4 TVPE - COR 12 JAN 1111 5 DEPTH ---& CASING CHAM 28 18 IN TO OATER LEVEL 7 AQUIFERS AND DEPTHS CO n att 8/31_ 1156 tto 0} HCO. Eboard Well cover Idences 0.6 SO. PUMP None CI NO. В 5, 12 USE DUM STOCK PE MA IND ING DEST MINE UNUSED

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Revised

DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

WATER RESOURCES BRANCH

WELL SCHEDULE		C2-67-26 bab
Date 8/31/55	, 19	Field N
Record by Rex O. Smith		Office No.
Source of data RMA files & per	3.063	5
1 Location State Colorado	Counts	Roans 5
Map RMA well loc map		
NE & NW yore 26	π 2	Xi 67 X
2. Owner Rocky Min. Arsonal	Addomia Do	· las cala "
m A/	Address -	
Driller Unknown		
3. Topography wery gowly rolling		6
4 Pleation ft shove	,	
5. Type Dug trilled, driven, bored, jetted	- 19 -	
d. Depth Rept 11. Meas 3	9.4 11	
6. Depth Rept 7. Casing Diam 28 in to in T	in brick	
Depth - /t , Finish		
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Others		•
9. Water level 57. 19.11 mont	8/5//1	TRA OF
board well cauer waide	which in O.	6 11 Above surface
O. Pump: Type None C		G M.
Power: Kind	•	Javwer
1. Yield: Flow		
There is A	ours pumpir	
2 Lee Dom , Stock, PS , RR , Ind., Irr 10		- -
Adequacy, permanence POOT 06 3. Quality POOL 3. SIngagus.	s. wel	<i>'\</i>
3. Quality POOL . STAGRAMT		ТетірТ.
Taste, odor, color FOUL OGOF		Sample Yes
Und for human consum	tion	
4. Romerke: (Log, Analyses, etc.) W.C.	no. Z. L	n sec. Rh.an
Accessed well los, map	.no. 71	64.2105
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27 BBOCa. U.S. GEORGIAN SURVEY GROUND ALTER BEICH H. . 9/6/55 aual water Color com. Adams - 7.0 L.Y. NE . NW .NW ... 27 . 2 1.67 1 520 RMA map = 7164-2105 4900 FIN; 4440 4 Way SE MARIET 27/ ... Rocky Men Assert ... Dorby Colo. 3/ None SIO. Fe Ca in in Spor 79 Me We 18 .5. Na 68 ANGHERS AND PLETHS > K co 3/4/85 top of 0 HCO. 112 firen cag. N side <u>د.</u> 50. 340 STATE OF NORS C CI 195 NO 13 . 01 with the state of the total and Maused . formerly demostic ; which FIG. 6. C3-51

466 1 2 in Sec 27 on Assert well loc. Almost dry map. 0

ON Kaysor+ UNITED STATES THENT OF THE B

/ ;	GEOLOGICAL SURVI	iy Anch
WELL SCHEDULE	TER RESOURCES BA	C2-67-27 66a/
Des 9/4/59	10	Rold No.
Board by P.A.S.	LAN	Pietd No.
Bourse of data . R. M. A.	Siles & Pers.	0.6 4.
		Adams
	·	Q.S
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		Dechy, Cale
•		
1. Topography Madely.	flat Plain	
L Elevation		
& Type: Due frilled drive	,	
6. Dopil: Ropt 45	·	
7. Cooling: Diam. T. A. Re.		
	A	
Others		
A Water Land 35.67	12 rope 9/6	1956 per topol.
ican Can. N.	Side which i	Z. O. A. Morro purtues
10 Provi Ton MAM	Consta	G. M.
Power: Kind TT		Horsepower
11. Yield: Flow		i. M., Meas , Rept. Est.
		umping G. M.
12. Une: Dom. Stock Pf.	RR ind in Obs	Unused
		Semple Yes
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		2 .IR. Sas. 27AB
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27 ddd91 L . 8/04/55 .. Que witer ROS JAH RMA files of field 642. 8 > Co/o SE .. 27 -- RMA well be map # 7/64 - 2/05 & April Photos 32 Esta Rocky Mon. Assenal . Dooby, Colo . 76 .. .9 None · 5190.4 SERO'NE SE . ur 3 × 27 10111 11 58 154 60 73 unused formally dom 10-1-55

12 OVER ALL ESS · 102 **613** orwines Well " 5 in Sec 27 on Arsonal loc. map

9405-July 1905 Revised

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DEPARTMENT OF THE INTERIOR GROLOGICAL SURVEY

GROLOGIC	L SURVEY
WATER RESOU	RCES BRANCH
WELL SCHEDULE	c2-67-21ddd1
Des 8/24/55	, 19 Fleid No
Bosord by RDS & LAH	Office No
Source of data RMA file 2 4 7	field obs.
1) Lourism: State Colorado	
March well low map	na. 7/64-2005 d a stiel phase
ABX SE Xm 27	T R X2 17 X
2. Ome: Racky Atta Accen	elsembers, Colo ".
Trees Marie	Man
Drille Clarence	
2. Topography Goothy Calling	e eleja
4 Mercion	
8. Type: Due drilled driven, bared, jette	
6. Dopth: Rept	and the second
	Trailes
Depth	
8. Chief Aquifer	From
Others	
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track def I conc. Il zu	Corticle in . Co.S 11/ balow weether
10. Pemp: Type Macte	. Cepadty
Power: Kind	Horespower
11. Yield: Flow	G. M., Mens., Rept. Est.
Drawdown ft. efter	houre pumping
Drawdown	Manused In
Adequacy, permanenes	obs. well
12. Quality	
	Sample Yes
Undt for	
14. Remerks: (Log. Analyses, etc.) M.R.	Il no. 5 in sec. 27
an dramal wall la	K. Maf
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リート 8 th Ave. Him at to p ) of concrete N aide Slab How riow * 6 . 3 3 Mills 14 CELL DUST actable facilities

9-120-July 1906 Bertund

## UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

#### WATER RESOURCES BRANCH

WELL SCHEDULE	C2-67-28 dabl
Date 2/6/45	Field No.
Record by R. O. S. & L.A.N.	Office No.
Bource of data Z.M.A. siles + pers. 6	<b>4.</b>
1 Lossien: Blate Co. R.P. B. Co. County Map R. M. A. Map. Ma. 7164-R.  A.B. M. S.R. M. ma. R.D. T. R.  2. Owner: Backy Mar. Address Tenant Man. M. mar. Address Driller. Man. M. m. m. M. Address  1. Tenantes S. Man. Man. Address  4. Elementes S. Man. Belove M.R.  5. Type: Des drilled, driven, bored, peted	Adams NR 67 & Derby, Colo.
Dopth ft., Plaish	yen
S. Chief Aquiler	1. 1. W 1.
Others	
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y ver les 1220 n 2/6 constite esq. vin h	The state of the s
10. Peop: Type Madel. Copedity	
Power: Kind	
11 Yield: Plow G. M., Pump G.	·
Drawdown 11. after bours pun	
12. Use: Dum., Stock, PS., RR., Ind., Irr	<i>f</i> = -
Adequety, permanense	
13. Quality	
Taste, odor, color	
Undt for	
14. Romerte: (Log. Analysm, etc.) M.&//. Ma. /	1A 366. ZB
en Arseal Mal.	,
	.,

well by wood stake on wedge of grove of trees 8 th Ave. 20 cag. to 84.3 it.; 18" iron eag. 53.2 FT. Lift center cover to reseal well cover 0.7 H. above LS JMP no.1.

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2 5 62 5					
33bcb C b				• • • •	
		TOWNSHIP	214	#Abg/	. •(
· 10-4-55	U. S. CLECH OLDS BL. SCHWAR	GRINGE GATER GRAM	CH 1		18 1 s
· Acres And Petre	LAH - RIMA GAL &	America .	11.00	• • • • • •	64
1 TPV OF LANGE STATE	Colo	Adams		. •	68
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O IN IL IN RMA. auch	130 4. 1, 5,170 No.	17, WAY SE CT 2	MARONES As La Co	1. 4. /56	• • •
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9-186—July 1936 Revised

### UNITED STATES

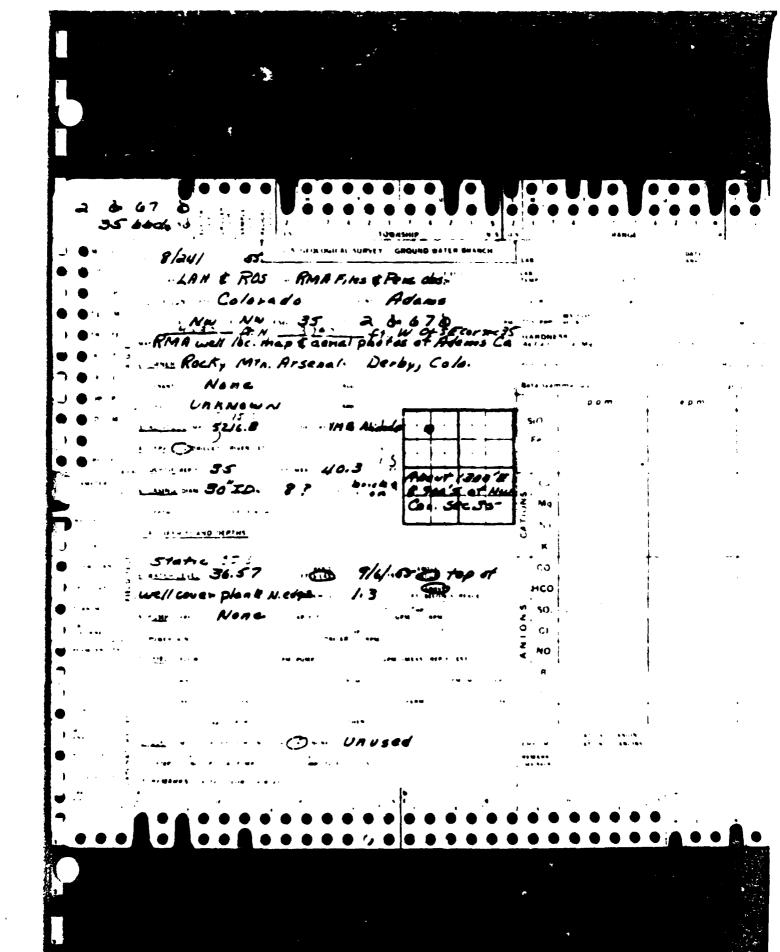
## DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

MM - 57

WATER RESOUT	ICES BRANCH
WELL SCHEDULE	C2-67-336ch
Date . # . # . #	
Record by RAS \$ 4AH	Office No
Source of data R.M. A. files	Perai. Obs.
at a man for local	
1) Location: Blato Salerada	
Map Public well learness	
2 h 44 h 1	T. A & 7 E
2. Omas Racky Mtre descrie	
Tenant No.4.8	
Driller KAKA AMA	_
1. Topography GRMXLY Calls	Mg Main
1. Elevation 5/51.0 n Bolow MSL	No.
5. Type: Due artifed driven, bored, jette	
6. Depth: Ropt 12. 11. Mona.	
7. Cusing: Diam. 4.4. in., to in.,	
Depth	
8. Chief Aquifer	Prom
Others	
ican say & side	
icau caq. E side	which is
10. Pump: Type MAIAC	Capacity G. M
Power: Klud	Hormpower -
11. Yield. Flow . G.M., Pump	- G. M., Mean, Rept. Fist
Drawdown ft. after -	hours pumping — G.M.
12. Use: Dom., Stock, PS., RR., Ind., Irra	OD Vaused
Adequacy, permanence	
17 Quality	
Faste, eder, color	Sample Yes
Unit for	
14. Romerke: (Log, Analyses, etc.) 1862	"I.No. 8 in Sec. 33 an
Acsens! Mar.	23' bolow 1712 - DC
. E/W - 11/6/57 - 48.	23 polow 17P - DC

AR SER into Arsonal other well under wood over edge of Ars. patrol road Around main gate (w) wood wall plug platform 12/1/55-4/3/56

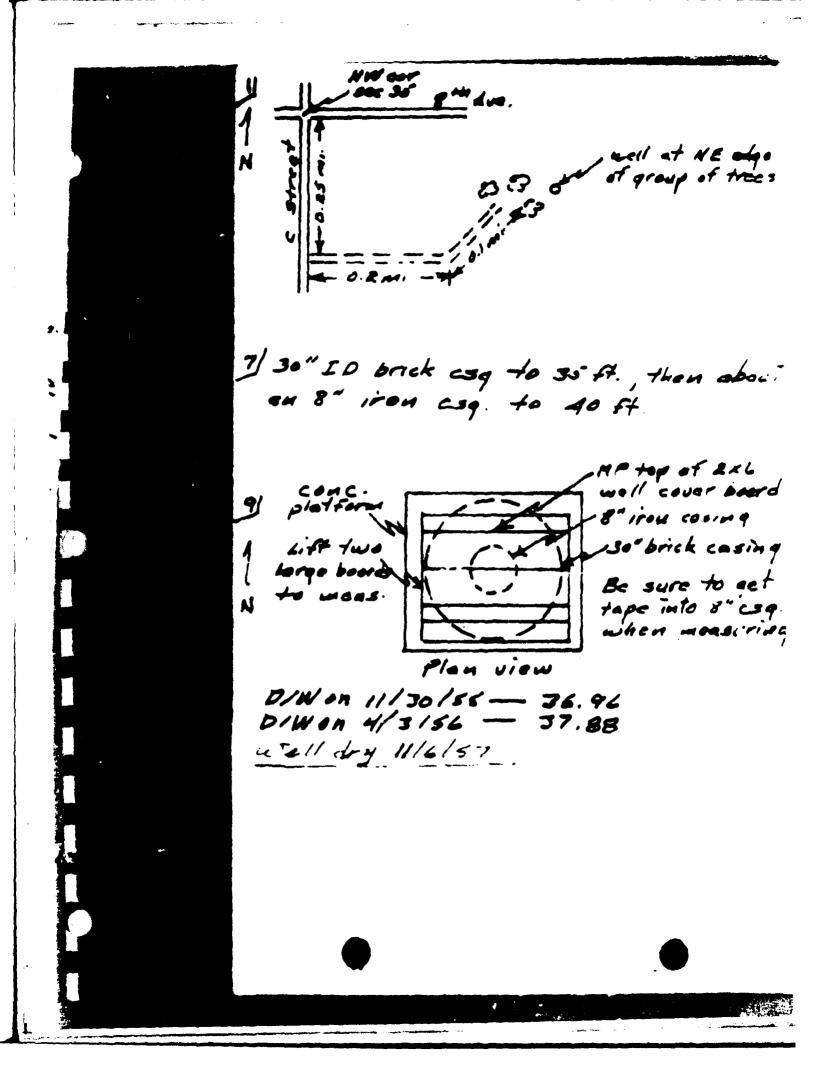
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1 410 813 Well =2 In Sec 35 On PMA LOC. NOOP. Be sure to get tape into 8° csg. at better of so large well when mean's 1/ 80'50 brick Cap. to 35', Then about an 8" ON. K. ysrit UNITED STATES

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DEPARTMENT OF T	THE HALLMAN	(M-67
WATER RESOURCE	ES BRANCH	
WELL SCHEDULE	C2-67-35	sbbdi
Dais 8/24/55	, 19 Pield No.	
Record by LAH & 1805	Office No.	
Bource of data RMA files & per	-s. obs	
1 Location: State Colorada	County Adams	, /
Map RMA well los ome &	arrial plates of A	doms Co
AW. X. NW. X 35,	T. 2 R 6	7 X
2. Com Rocky Min. Aczes /	Iddren Darby, Co	10
	Address	g
Driver Unknown	Address	Š
3. Topography MEL. J. APPLILY Collins	a plain	
1. Blevation the above		
8. Type:/Dus/drilled, driven, bored, jetted	10	18.
6. Depth. Rept. 3.2 ft. Mess. A.		
7/ Curing: Diam. 30in., to .Ain., T	borek e	3 %
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Othern		
of Water land ale. 57: 1 Toph	7/4/195 alaye	to a es a
I well court plank I soge	which is 15	TO
	apacity G. M.	
Power: Kind	Horsepower	) - · • - • • ·
11 Yield. Flow G. M., Pump -	G. M., Mras, Rept Es	
	•	
Draw lown	Junused	
Adequacy, permanence fair ob	s. well	• •.•.
13. Quality	Temp	• <b>7</b> .
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14. Remarks: (Log. Analyses, etc.)	معه من و مد ا	35 018
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Arsonal well 100 m	7 4 11	
4 corrector reserves or the	- 141	
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.. Qual water man . Petri 1 111 /560 LOCATION ..... Colo. 7.7 Adams NE . SW NW 35 2 5 673 962 1 3 450 +1 N , 3 400 +1 W of SE ou see 35 LOUBLE RMA 86 12 S.O. 1 M TITUDE 40 5220 Fe Pot 126.8 27 2 4 280 1 AUDITEMIS AND DEPTHS ## Y CO " TIM 9-6 "55 " TO TO E.E. 0 HCO. 115 90. 475 CI 63 NO. .11 . 2 .. .. .. man Whused - per des .. .....

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4.185 (October 1950)

#### UNITED STATES

### DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

WATER RESOURCES DIVISION

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	7 Office No
woman of data RMA files & field	دريع -
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Man RNA well loc map m. 7/64	1.2105 E acrial photos
MapRNA well loc. map no. 7/64 SW & NW War 35 T	2 × 67 3
2 mm Rocky Mtn Arsenal Addr	
Fenant None Addre	, ,
Driller Unknown Addr	res —
3. Topography gontly rolling po	lain T
4 Elevation _ ft. above	
5 Type Digarilled friven, bured, jetted	18
11. Dopth Reft 189 It Mess 126.8	16
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Others	, ,
9. Water level #8.78.11 Proper	7/6, 10.55 Alare top at
ICON LEG. A. SINC White	h le Q. 4 11. 1000 surface
0. Pump: Type Name	Htv — G. M. —
Power: Kind T.	Hursepower
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Drawfow: - ft after -	G M
2. Use. Dom. Stock, S. RR., fall of the	
Adequacy, permanence 7003 055	well
s. Quality	Temp *F
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Unfit for	
A Remar . Les Analysma, etc : Woll A. Alzenal well loc map	10.1 IM BGC. 35 am

#### APPENDIX D

REPORT OF PLUGGING OPERATIONS
OF DEEP WELLS ON THE
ROCKY MOUNTAIN ARSENAL

### REPORT OF PLUGGING OPERATIONS OF DEEP WELLS ON THE ROCKY MOUNTAIN ARSENAL

In the area of the contaminated surface aquifer, numerous deep wells extend into the Laramie formation. These farm wells existed prior to the aquisition of the land by the Government for the purpose of construction of the Rocky Mountain Arsenal. All of the wells were tapping bedrock water.

The possibility exists that contaminated water from the surface aquifer could be transmitted to the bedrock aquifer by piping down along the casing in the deep wells. To eliminate the possibility of contaminating the bedrock aquifer, the Corps of Engineers, U. S. Army, Omaha District, recommended to the Rocky Mountain Arsenal that the deep wells be plugged.

Upon concurrence by the Rocky Mountain Arsenal, the Corps of Engineers began the well plugging program in April, 1962. Since the South Platte River is the major controlling drainage feature in the area, the elevation of the maximum scour of the river, elevation 4850, was chosen as the maximum depth of the bottom seal-off plug in the wells.

#### Method of Plugging:

A Failing 1500 drill was used as a workover rig to clean the wells of debris. The majority of the wells were either bridged off by caving or by foreign material dropped into the wells. The wells were cleaned by using roller rock bits and a bentonitic drilling mud.

After the wells were cleaned, the casing was parted at the seal-off interval by detonating two  $1\frac{1}{4}$ " sticks of 60% high velocity gelatin dynamite. Upon computation of the amount of neat cement grout put into the well after the blast, the parting of the well casing more than effectively achieved in all cases.

Following the parting of the casing, 2" galvanized pipe was put in the well and neat cement grout was pumped into the seal-off zone. The neat cement grout consisted of a slurry of portland cement weighing approximately fifteen pounds per gallon. The casing was parted and cemented off at three intervals in each well.

#### Individual Well Records:

Section 22, T2S, R67W

Well #A-1 (Well #3 on reference map)

Elev. 5140 BR Elev. 5108

Well #A-1 (Cont'd)

500' deep?

Well casing - 4" dia. iron

11 pipe set in well with hand pump at surface.

Well housed in 4' x 4' x 6' concrete pit.

Well plugging record:

Pulled 1½" pipe and pump.

Washed hole clean to 292'.

Blasted casing at 280' depth.

Pumped 115 gal. neat cement grout in hole.

Blasted casing at 100' depth.

Pumped 95 gal. neat cement grout in hole.

Blasted casing at 37' depth.

Tremied 70 gal. neat cement grout in hole.

Top of hardened cement in hole at 15' depth.

Well #A-49a (Well #2 on reference map)

Elev. 5170 BR Elev. 5120

524' deep?

Well casing - 3' dia. concrete

 $l_{\mu}^{\perp}$  pipe in well with hand pump at surface.

Well plugging record:

Pulled 1½" pipe and hand pump from well.

Probed and washed with rock bit and N rods.

Found no indication of drilled well deeper than probed depth of 3½'. Large diameter casing indicates this is a shallow well. Depth of 52½' in records must be in error.

Did not fill well, replaced well cover.

Well #A-49b (Well #1 on reference map)

Elev. 5130 BR Elev. 5100

500' deep?

Well casing - 6" dia. iron

Well housed in 4' x 4' x 6' concrete pit.

#### Well #A-49b (Cont'd)

Well plugging record:
Cleaned debris from pit.
Washed hole clean to 290' depth.
Blasted casing at 280' depth.
Pumped 115 gal. neat cement grout in hole.
Blasted casing at 123' depth.
Pumped 155 gal. neat cement grout in hole.
Blasted casing at 40' depth.
Tremied 120 gal. neat cement grout in hole.
Hard cement in pit, hole completely filled.

#### Section 23, T2S, R67W

Well #A-2 (Well #4 on reference map)

460' deep?

Unable to locate well. Arsenal records indicate well was razed and filled.

Well #A-3b (Well #5 on reference map)

Elev. 5150 BR Elev. 5130

520' deep?

Well casing - 4" dia. iron

Windmill in state of disrepair over well.

Hand pump set on casing at ground surface.

Well plugging record:

Dismantled windmill, pulled  $l\frac{1}{2}$ " pipe and hand pump from well.

Washed hole clean to 300' depth.

Blasted casing at 300' depth.

Pumped 200 gal. neat cement grout in hole.

Blasted casing at 160' depth.

Pumped 100 gal. neat cement grout in hole.

Blasted casing at 70' depth.

Pumped 110 gal. neat cement grout in hole.

Blasted casing at 30' depth.

Tremied 75 gal. neat cement grout in hole.

Top of hardened cement in hole at 3' depth.

#### Well #A-4 (Well #6 on reference map)

480' deep?

Dug and probed area trying to locate well. Unable to locate it. Former resident stated the well had been razed and filled by the Rocky Mountain Arsenal.

#### Section 24, T2S, R67W

Well #D-ld (Well #6 on reference map)

Elev. 5165 BR Elev. 5135

450' deep?

Well casing - 30' dia. galvanized

Well plugging record:

Probed and washed hole with rock bit and N rods.
Unable to find evidence that the well was
drilled deeper than 50'. Large diameter
casing supports this evidence. Records of
deeper depth must be in error.
Did not fill well, replaced well cover.

Well #D-10 (Well #1 on reference map)

Elev. 5180 BR Elev. 5150

No data on total depth.

Well casing - 6-3/4" dia. galvanized

Well plugging record:

Attempted to clean hole with N rod and rock bit.

Hole appeared to be filled with debris.

Twisted rock bit off in hole at 35.6' depth.

Blasted casing at 35' depth.

Tremied 100 gal. neat cement grout in hole.

Hard cement standing in hole at 5.5' depth.

#### Section 26, T25, R67W

Well #A-59b (Well #2 on reference map)

Elev. 5190 BR Elev. 5142

#### Well #A-59b (Cont'd)

700' deep?

Well casing - 30" dia. brick

Well plugging record:

Probed and washed well but unable to find evidence that well was drilled deeper than 30'. Large diameter brick casing indicates well was hand dug and the 700' depth shown in the records is erronious.

Did not fill well, replaced well cover.

Well #A-87 (Well #1 on reference map)

Elev. 5180 BR Elev. 5155

27' deep?

Hand dug down 6' but unable to locate well casing. Field evidence indicates this well to be of greater drilled depth than 27'. The records of Well #A-59b could be the records of this well. Rocky Mountain Arsenal records show this well to be razed and filled. Backfilled hand dug location hole.

#### Section 27, T2S, R67W

Well #A-55b (Well #2 on reference map)

Elev. 5120 BR Elev. 5070

No data on total depth.

Well casing - 7-1/8" dia. galvanized.

Well housed in 6' x 6' x 7.5' concrete pit.

Well plugging record:

Filled well pit with dirt.

Cleaned and washed hole to 58' depth, encountered hard obstruction. Put drive sampler on bottom of N rods and drove sampler from 58' to 59' using 70 blows.

Recovered bedrock from drive sampler. Blasted casing at 53' depth.

#### Well #A-55b (Cont'd)

Tremied 55 gal. neat cement grout in hole. Blasted casing at 33' depth.

Tremied 50 gal. neat cement grout in hole. Hand cement in hole at 15' depth.

Well #A-58 (Well #1 on reference map)

Elev. 5125 BR Elev. 5075

620' deep?

Well casing - 5" dia. iron

Well housed in 4' x 6' x 6" concrete pit.

Well plugging record:
Cleaned and washed hole to 280' depth.
Blasted casing at 280' depth.
Pumped 500 gal. neat cement grout in hole.
Blasted casing at 160' depth.
Pumped 300 gal. neat cement grout in hole.
Blasted casing at 58' depth.
Pumped 110 gal. neat cement grout in hole.
Hard cement in hole at 16' depth.

#### Section 35, T2S, R67W

Well #A-91 (Well #1 on reference map)

Elev. 5205 BR Elev. 5175

124' deep

Well casing - 4" dia. iron

Casing located at ground surface.

Well plugging record:
Cleaned hole to 128' depth.
Blasted casing at 100' depth.
Tremied 80 gal. neat cement grout in hole.
Blasted casing at 37' depth.
Tremied 60 gal. neat cement grout in hole.
Eard cement in hole at 8' depth.

Well #A-92 (Well #4 on reference map)

Elev. 5245 BR Elev. 5217

Well #A-92 (Cont'd)

650' deep?

Well casing - 52" dia. iron

Well housed in 4½' dia. rough circular 6' deep concrete and brick pit.

Well pit filled with dirt by RMA.

Well plugging record:
Washed and cleaned hole to 400' depth.
Blasted casing at 400' depth.
Pumped 250 gal. neat cement grout in hole.
Blasted casing at 250' depth.
Pumped 190 gal. neat cement grout in hole.
Blasted casing at 70' depth.
Tremied 50 gal. neat cement grout in hole.
Blasted casing at 35' depth.
Tremied 50 gal. neat cement grout in hole.
Hard cement in hole at 10' depth.

#### Section 36, T2S, R67W

Well #D-23 (Well #1 on reference map)

No data on total depth.

Unable to locate this well. Rocky Mountain Arsenal records indicate the well was razed and filled.

Well #D-24 (Well #2 on reference map)

No data on total depth.

Unable to locate this well. Rocky Mountain Arsenal records indicate the well was razed and filled.

#### APPENDIX E

PRE-1942 WELLS SUMMARY OF AVAILABLE DATA

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Section Number
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Hole Number

numeral - number from Map 7164-2105 letter - additional well from appraisal reports

Tract Number - 1942 From appraisal reports

Tract Number - 1946 From Army data shown in Appendix B

Well Status C = "Covered" F = "filled A = "es is"

"begguid" - d

Well Depth in Faet (500) - more than one well on a parcel; uncertainty as to which one the depth refers S = Shallow D = Deep

Casing Type
C = Concrete

Steel casing in concrete pit or casing Steel

Data for each well appears on two consecutive pages. Note

* - Suggested priority well for investigation.

PRE-1942 WELLS

		TRACT	TRACT	CABIN	CASING DIAMETER IN INCHES		CAE	CASING TYPE	
SECTION	HOLE NUMBER MAP 7164~ 2103	NUMBER -1948 -1948 APPRAISAL REPORTS ATTACH 2		1942 Appraisal Reports	1946 ARMY WELL INVENTORY APP. B	1955-36 USG8 APP. C	1942 Appraisal Reports App. A	1946 ARMY WELL INVENTORY APP. B	1955-56 U808 APP, C
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	æ	<b>E6</b>		9					
a		966	B66	9	4	•			
	a	B65	865		9				
	m	B63	863						
	4	B63	B63						
	ស	B12	B12						
м		B62	B62		94			ú	
	25	B62	B62						
	ഡ	B61	961		9				
	m	B60	960						
	4	830	853						
	เก	83	B12		9				
	9	B4	B4		9				
	2	B6	B6		60				
	40	837	B37	-					
	ø	842	B42						
	σ	B42							
	10	B43	B43		18			TILE	
	11	944	B44		9				

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PRE-1942 WELLS

			TRACT	CASIN	CASING DIAMETER IN INCHES		CAS	CASING IYPE	
SECTION	HOLE NUMBER MAP 7164- 2105	NUMBER NUMBER -1942 APPARISAL REPORTS ATTACH 2	NOMBER 1946 ARMY WELL INVENTORY APP, B	1942 Appraisal Reports	1946 ARMY WELL INVENTORY APP. B	1955-56 USG8 APP. C	1942 Appraisal Reports App. A	1946 ARMY WELL INVENTORY APP. B	1955-56 USG8 APP. C
	12	BAA	<b>B</b> 56		46				
	13	B51	851		9				
	14	858	858			-			
	13	B40	B40			•			
	16	<b>B38</b>	взв		9				
	17	B57	852		48			U	
	18	<b>B</b> 53	B59			9		-	
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	21	853	853						
	U	B1@							
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	(23)	B39	839		9				
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	ø	B46							
	I	B48							
	1	849		9			ഗ		
	٦	80 80 80					ú		
	x	B33							

PRE-1942 WELLS

CASING TYPE	1946 1942 ARMY APPRAIGAL WELL 1955-56 REPORTS INVENTORY USGS APP. A APP. B APP. C						U	υ	U		U			-					υ		
CABING DIAMETER	1946 ARMY 1942 WELL 1955-56 APPRAISAL INVENTORY USG8 REPORTS APP. B APP. C	48	g				84	20.4	36	84			ug.	y y							
TRACT	NUMBER -1946 -1942 ARMY APPRAISAL WELL REPORTS INVENTORY ATTACH 2 APP. B		852	833		B31	916	B21	834	B13	B17	B14	вззя	835	B36	B1	181	88			
TRACT	HOLE NUMBER -1948 HAP APPR APPR 7164- REPOR	L B56	(24) B52	1 B33	A B33	e B31	3 B16	4 821	5 B34	6 B13	7 B13	8 814	9 B33A	10 835	11 836	12 81	14 B1	13 B2	B B22	C B26	D 832
	SECTION			4																	

PRE-1942 WELLS

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1.000	NUMBER -1948 -1946 APPAISAL REPORTS ATTACH &	взея	B36B	E 8	<b>E</b> 9	F.9	日本	E3	E3	E3	E3	E2B	E7	E92	E92	B83	863	8835	88.55	B71	B124
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PRE-1942 WELLS

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	HOLE NUMBER MAP SECTION 7164- NUMBER 2105	18	va	^	19	<b>6</b> 3	<b>₽</b>	1.1	13	51	13	14	17	18	α	Φ	Ü	۵	(20)	Ŀ	<b>o</b>

PRE-1942 WELLS

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PRE-1942 WELLS

SUMMARY OF AVAILABLE DATA

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TRACT NUMBER -1942 APPRAISAL REPORTS ATTACH 2	892	8163	B160	B164	B189	A189	B167	B186	B185	B168	B184	8176	8175	B190	B170	B178	B172	B180	
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PRE-1942 WELLS

SUMMARY OF AVAILABLE DATA		ACT NUMBER  MBER -1946  1946  942 ARMY  PRAISAL WELL  PRAISAL WELL  PORTS INVENTORY APPRAISAL NGGS  TACH 2 APP. B APP. C APP. B APP. C	13 B113 48 48/? C	12 B112 B	18 B118 40 36 C C	07 B107 6 6	17 B117	17 B116	10 B110 36 C	09 B103 C C	04 B104 5 6	05 B105 C	01 B101	00 B100 6	00	13 B93 6 B	B 8955 B	0.B	14	13	368	
		NUMBER -1946 -1946 ARMY WELL INVENTORY APP, B	B113	B112	B118	B107	8117	B116	8110	8103	B104	B105	B101	B100		B93	893					
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	1955-36 USGS App. C						42													
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- -	NUMBER. -1942 -1942 -1948 -1948 -1948 	B182	B183	E34	E15	E12	E11	E10	E22	E24	E24	E25	E27	E23	E43	E 43	ES4	E33	E47	E57
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PRE-1942 WELLS

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	TRACT	NUMBER -1942 APPRAIBAL REPORTS ATTACH 2	10	10	D2	010	D10	D10	А87	A59	A59	A58	ASSA	ASS	9530	986	A57B	A57	A81	A84	A56	A36A
		HOLE NUMBER MAP 7164- 2105	ın	Ð	α	-	ณ	m		ď	m	<b></b>	ณ	m	4	ın	yg.	α	-4	ณ	α	æ
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TRACT	-1946 ARMY WELL INVENTORY APP, B			966	B65	B63	B63	B12	B62	B62	B61	B60	833	B12	94	B6	B37	B42		B43	B44
TRACT	я 118АL 118 11 2	m N	E6	B66	B65	B63	B63	<b>B</b> 12	B62	B62	B61	BGØ	920	1C &	<b>7</b> 8	96	B37	B42	B42	843	944
	HOLE NUMBER MAP 7164- 2105	σ	<b>a</b>		•	м	4	ທ	-	22	ณ	м	4	<b>s</b> n	9	~	€	• 6	σ	10	11.
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PRE-1942 WELLS

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9	HOLE NUMBER MAP	NUMBER -1942 APPRAIBAL BERNETS		1943 MAP	1946 ARMY WELL 1955-56		1946	- <b>€ 3</b>	1946 ARMY WELL	1955-56	1981
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	2	B76	B69	σ		•	(75)				ω
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	ø	<b>B8</b> 2	B63	U		L	88	N)	33		œ
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PRE-1942 WELLS

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	1943 MAP 7164- 2105		ບ	ü	ú	σ	Ü	ıL	<b>t</b> L	u.	Ü	U	u	tL.	ပ	u.	u	U	α	U	U
TRACT	1946 ARMY WELL INVENTORY APP. B		8158	B154	B152	B161	B163	B163	8163	B149	8151	B147	B150	8150	B146	B67	вва	B89	989	B86	<b>B86</b>
T TRACT	78 189L 18	B125 or 126	B159 B	B154 B	8152 B	B161 B	B163 B	B163 B	B163 B	B149 B	B149 B	B147 B	B150 B	B150 B	B146 B	B87 B	888 8	B 698	8 688	B96 B	B96 B
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SUMMARY OF AVAILABLE DATA PRE-1942 WELLS

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ARMY 1943 WELL MAP INVENTORY 7164- APP, B 2105
B92 C
В165 А
B162 C
B189 C
B187 A
B186 C
B185 C
B188 C
B184 C
B176 C F
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PRE-1942 WELLS

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PRE-1942 WELLS

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	1943 MAP 7164- 2105					iL.	U	U	ບ	u	U	U	U	ပ	Ü	Ü	u	Ü	U	ប	Ĺ
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TRACT	NUMBER -1942 APPRAISAL REPORTS ATTACH 2	B168	8168	B182	B183	E34	E13	E12	E11	E10	E22	E24	EPS	E27	E29	E43	E43	E54	ក ស ស	E47	1
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PRE-1942 WELLS

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PRE-1942 WELLS SUMMARY OF AVAILABLE DATA

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PRE-1942 WELLS BUMMARY OF AVAILABLE DATA

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TRACT	NUMBER 1942 APPRAISAL REPORTS ATTACH 2		10	10	10	D2	D10	D10	D10	A87	A59	A539	A58	АЗЗА	ASS	A53C	ABS	A578	A57	A81	A84
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PRE-1942 WELLS SUMMARY OF AVAILABLE DAIA

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PRE-1942 WELLS

		TDOCT	TRACT		WELL STATUS		3	WELL DEPTH IN FEET	IN FEET	
SECTION NUMBER	HOLE NUMBER MAP 7164- 2105	NUMBER 1942 APPRAISAL REPORTS ATTACH 2	NOTES	1953 MAP 7164- 2105	1946 ARMY WELL 1955-56 INVENTORY USGS APP. 8 APP. C	1981 8 8	1942 Appraisal Reports	1946 ARMY WELL INVENTORY APP. B	1955-56 USG8 APP. C	1981 G & M ATTACH 3
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	HOLE NUMBER MAP 7164- 2105	Ŀ	-		Q)	ю	4	α		cu .	a
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PRE-1942 WELLS

SUMMARY OF AVAILABLE DATA CDE 1962 REPORT

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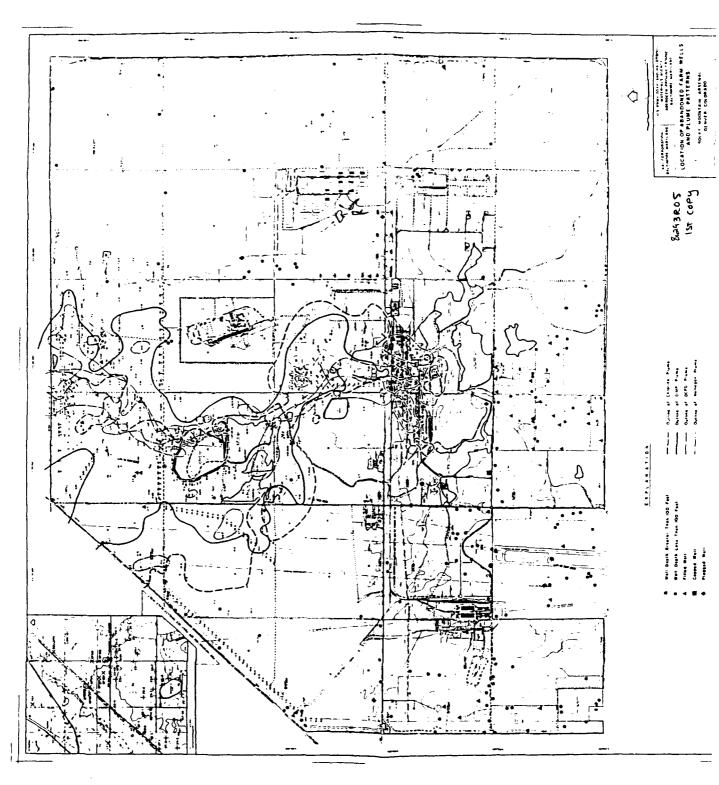
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SECTION	NO.	NO.	STATUS	CASING	CASING	APPARENT	
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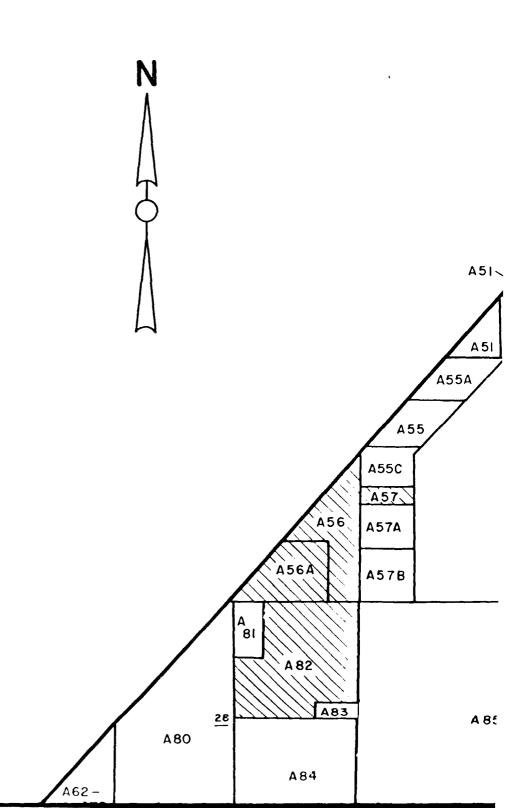
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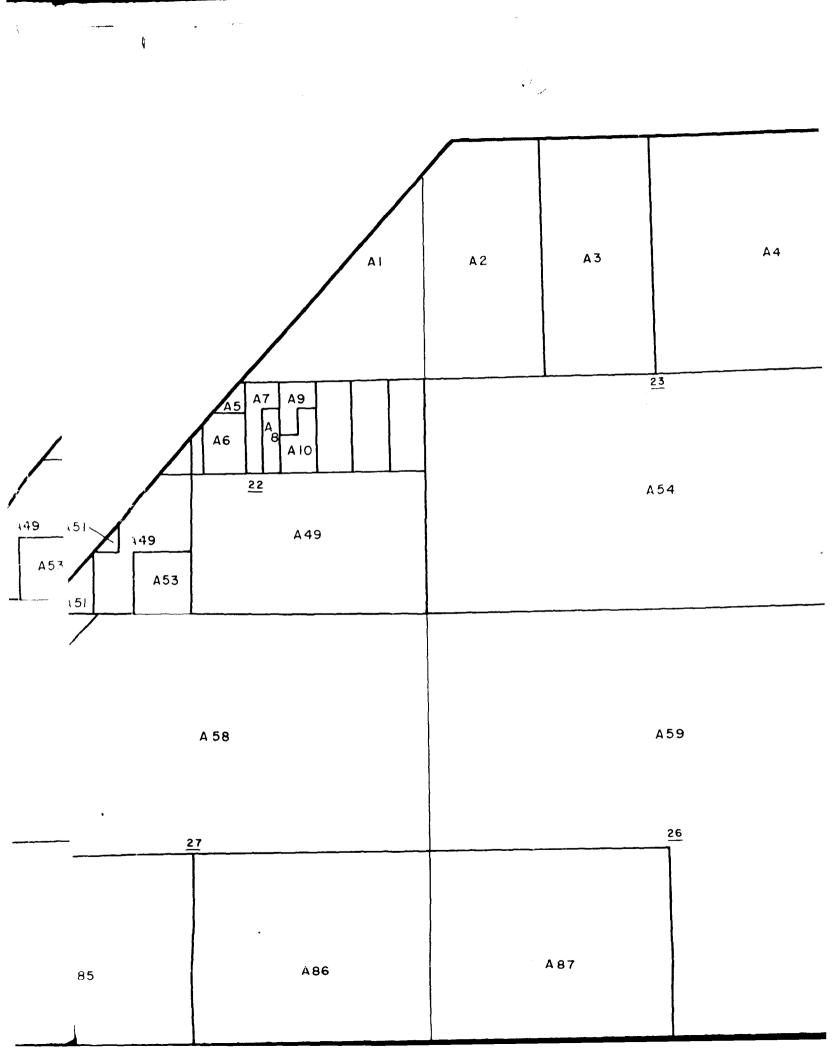


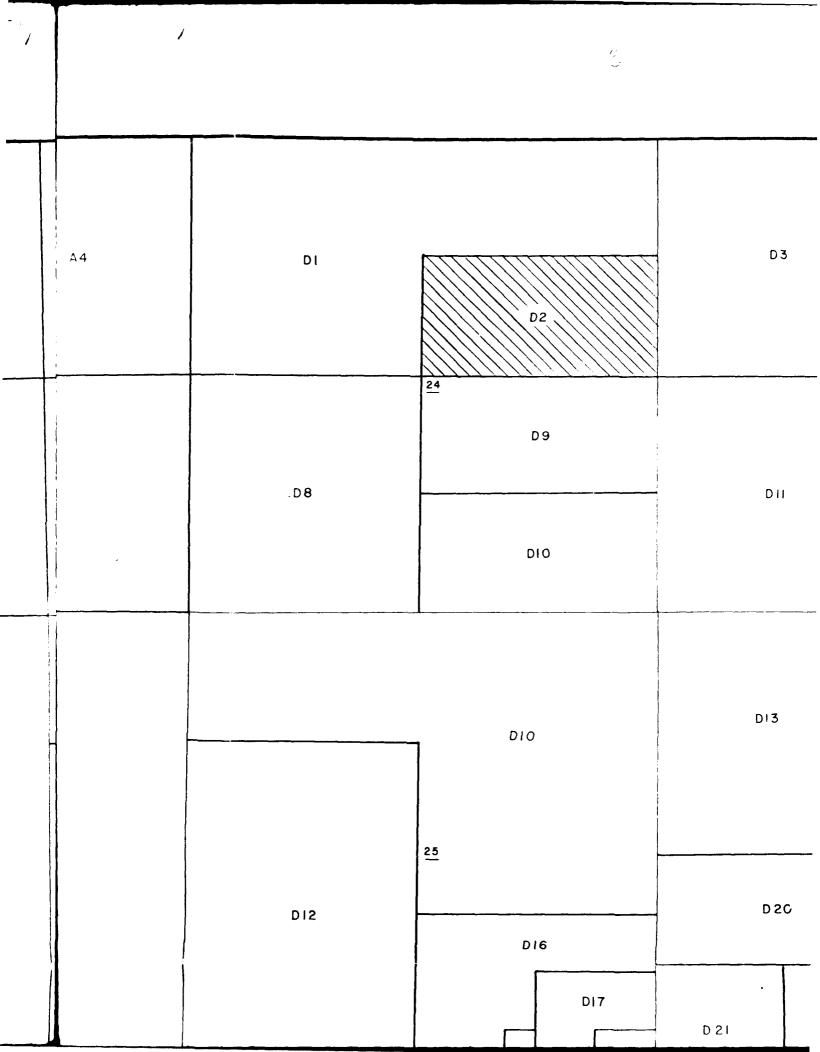
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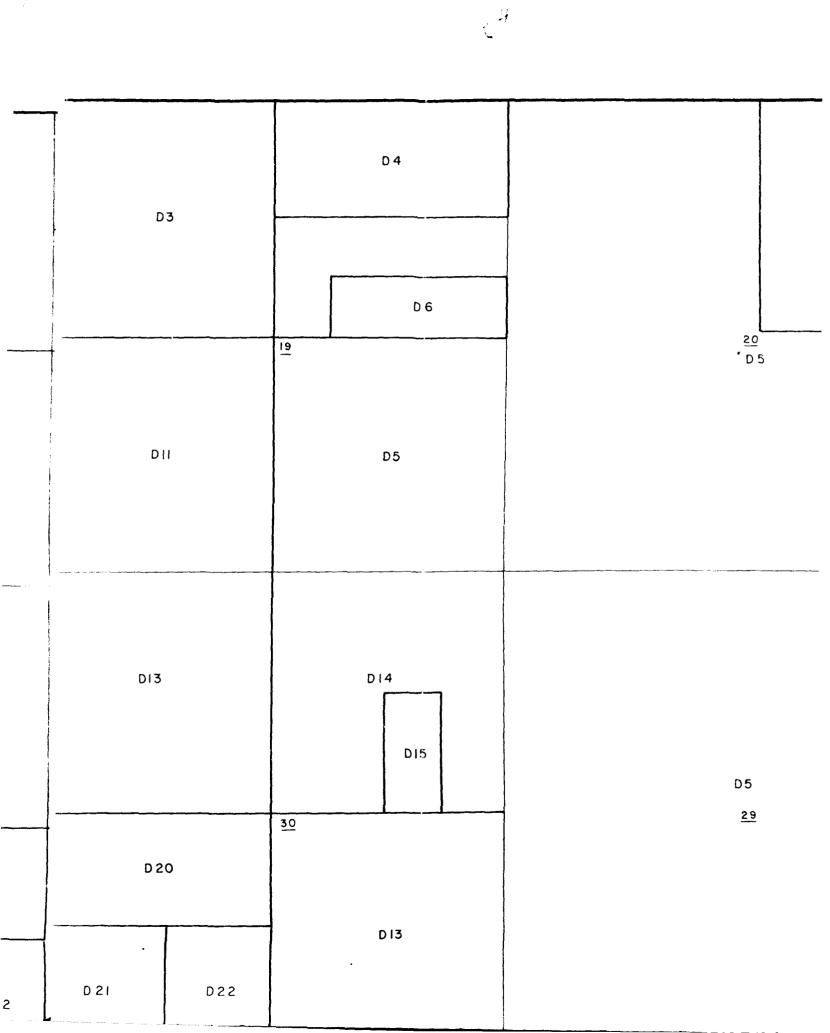
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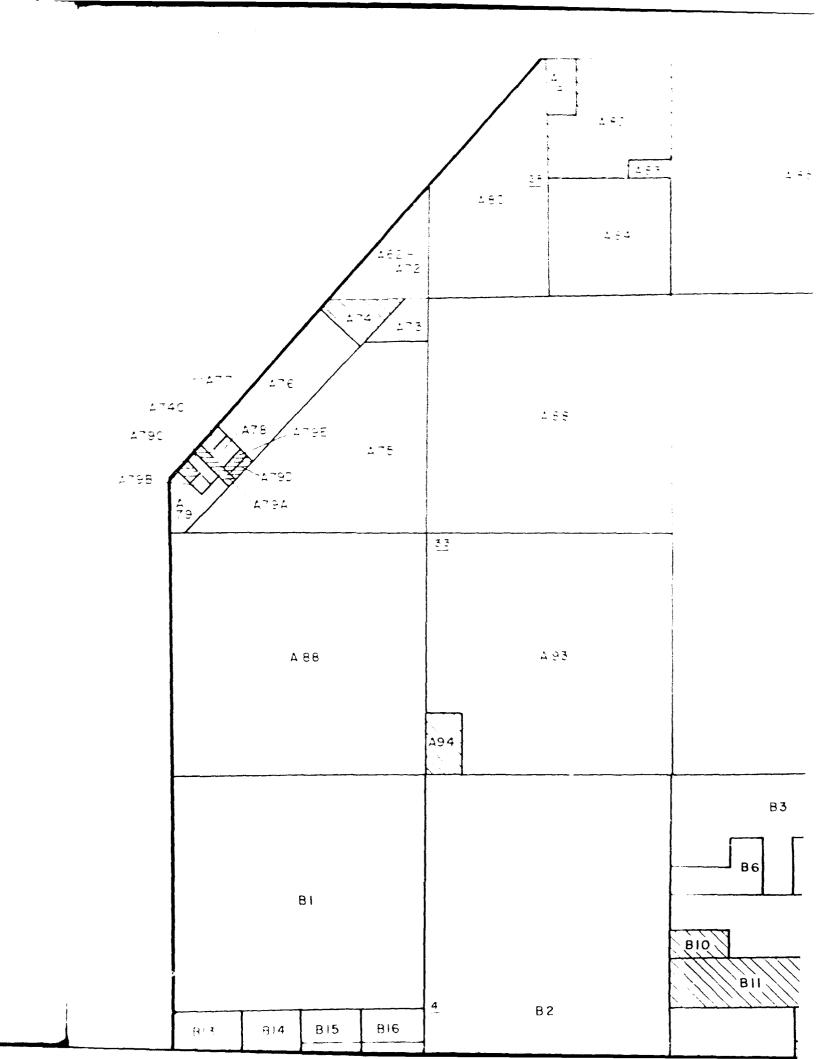
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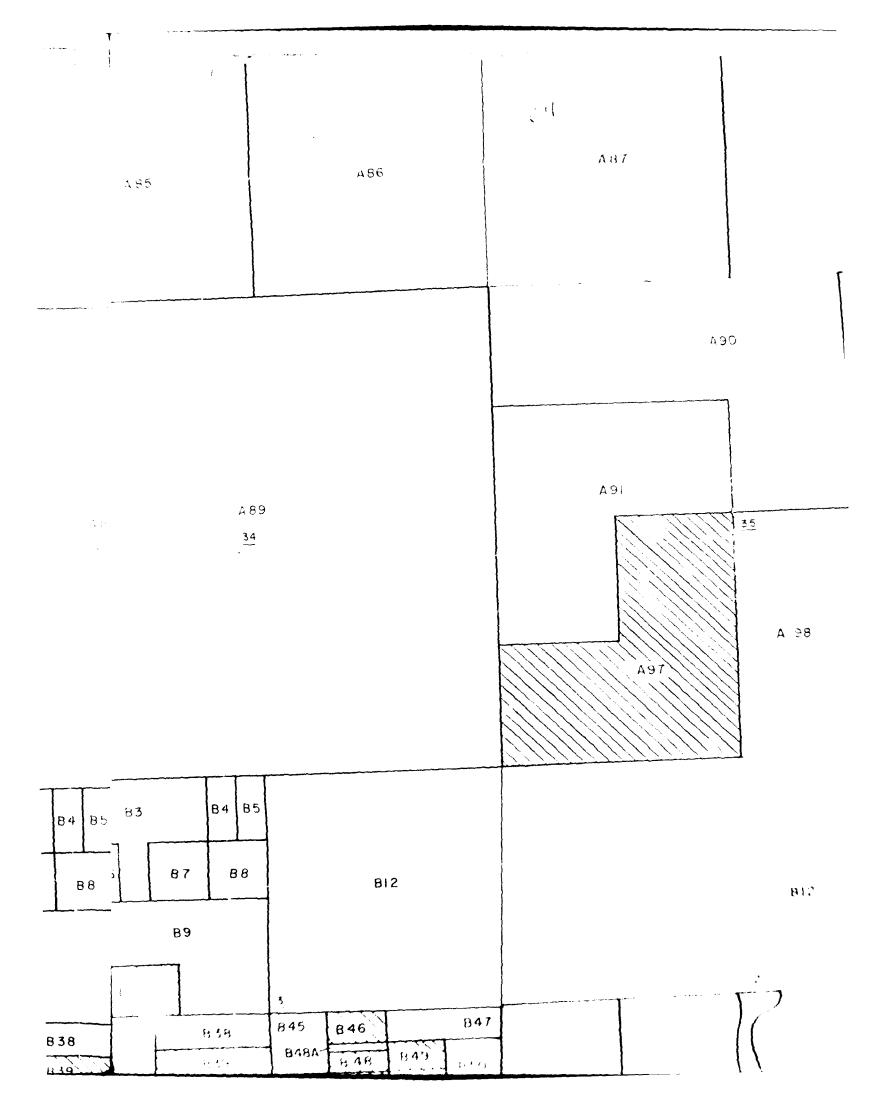
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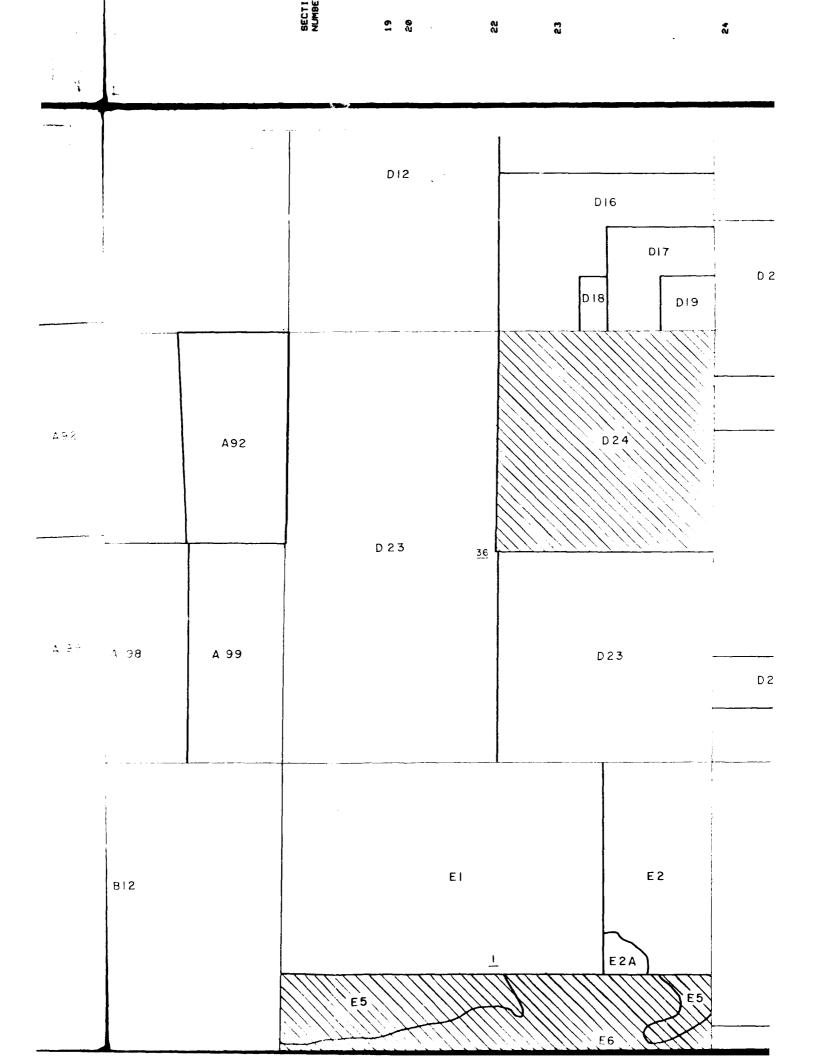
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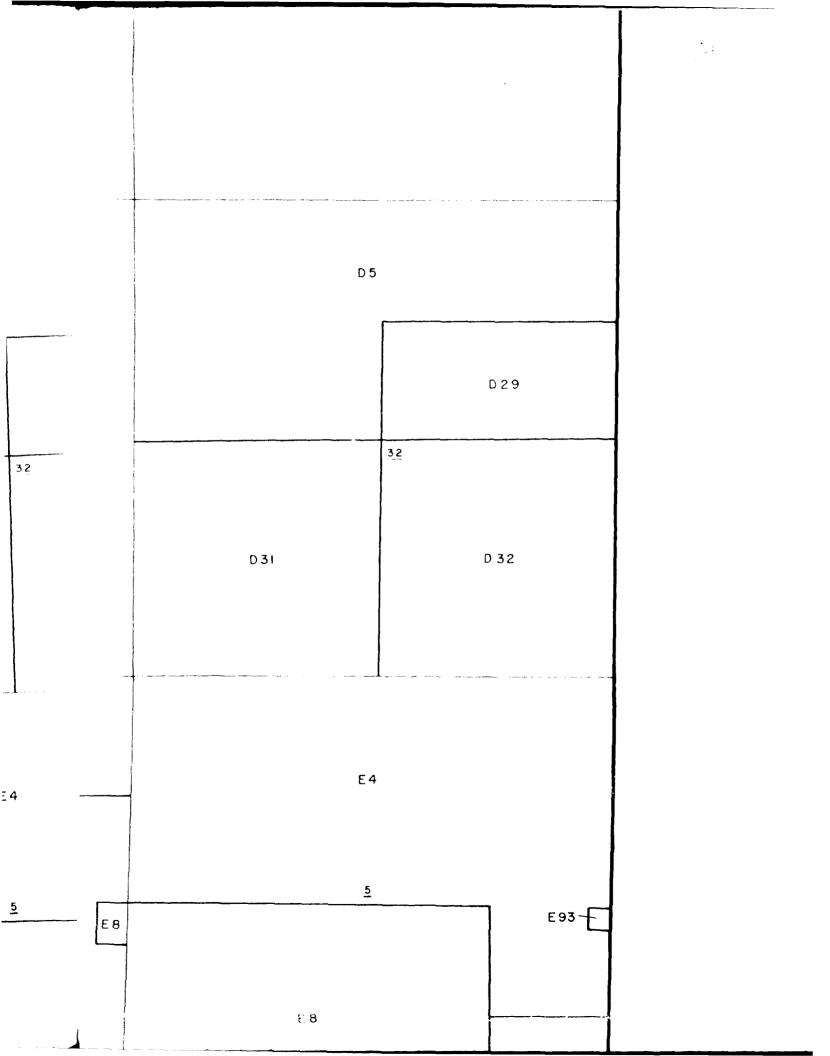
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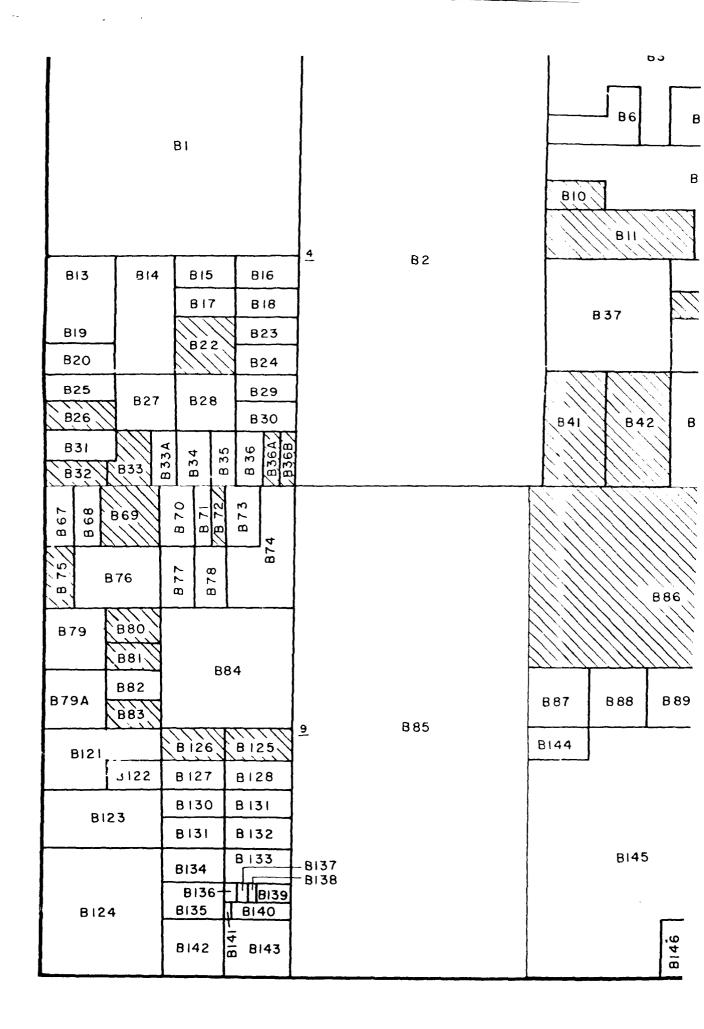


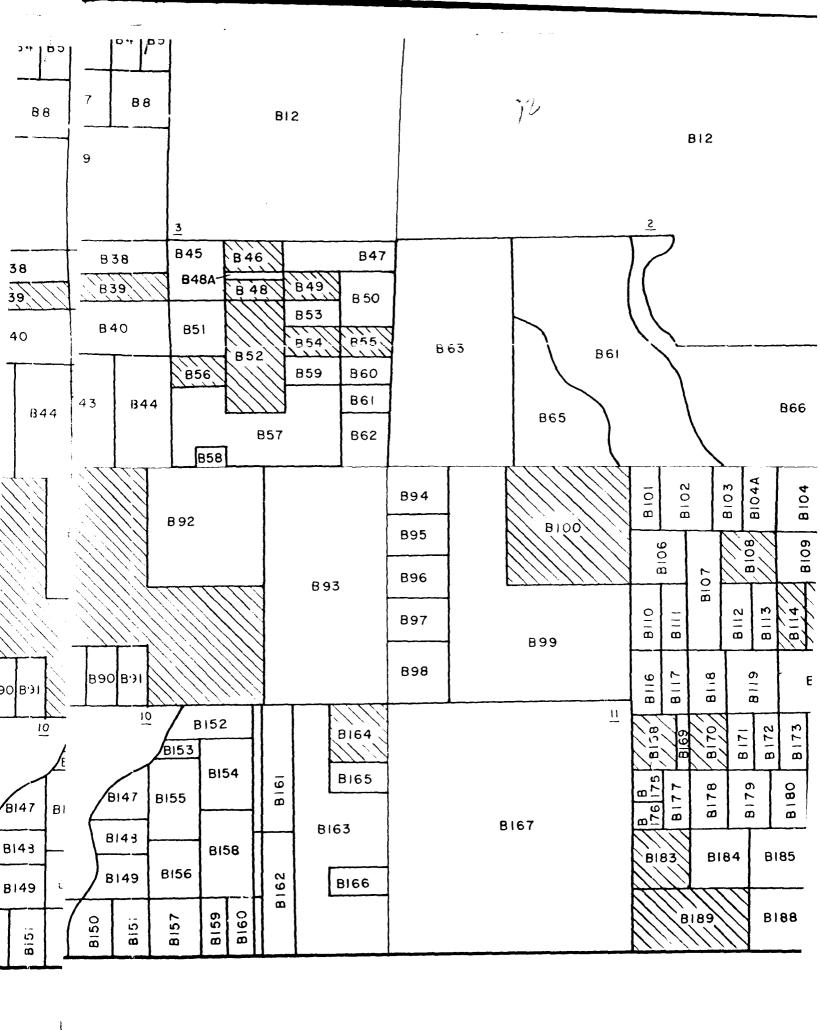


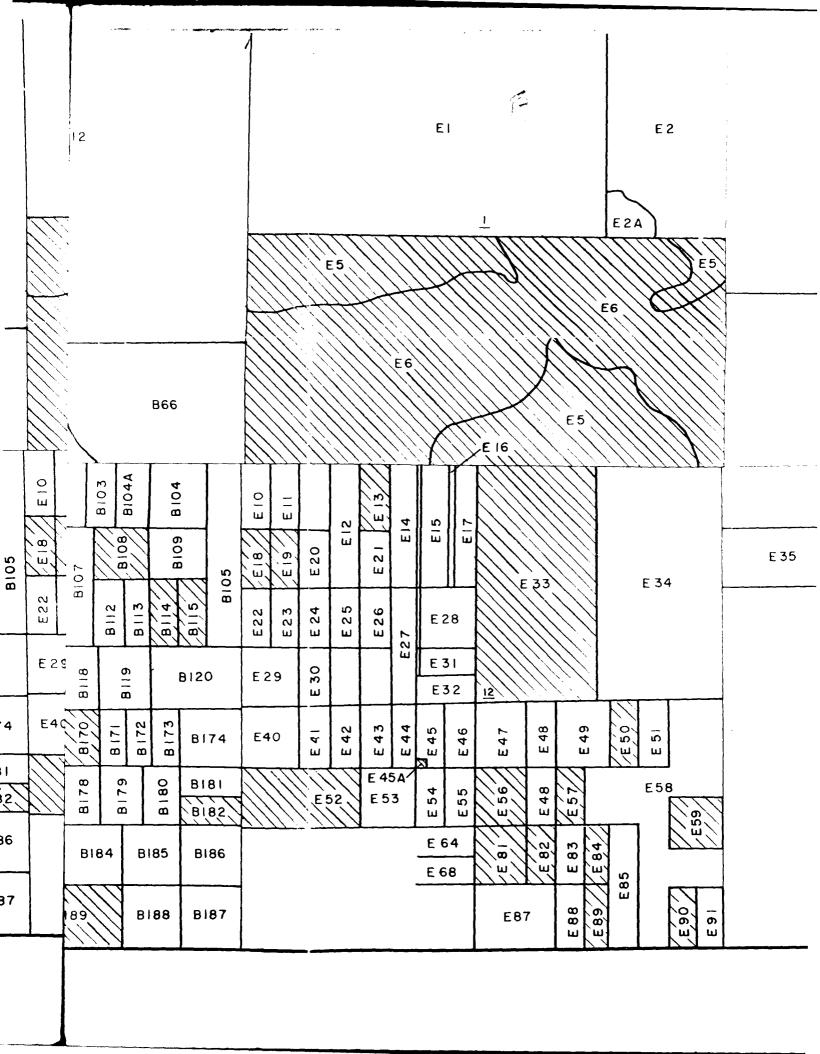


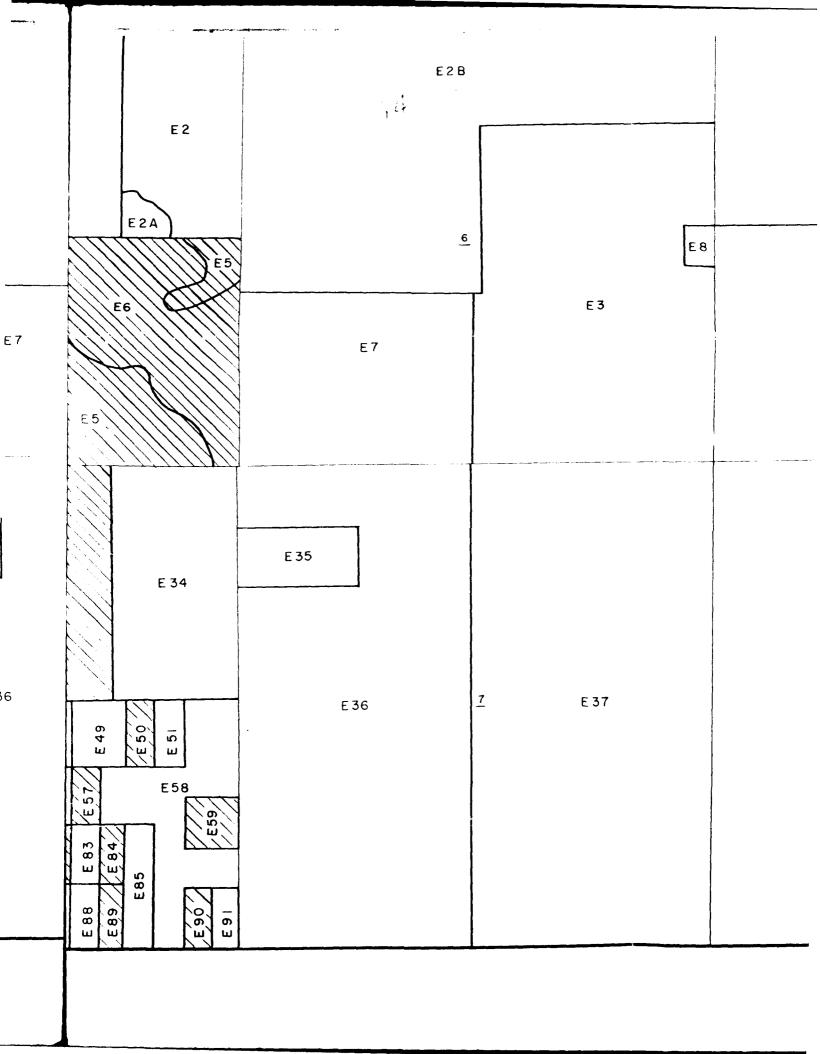


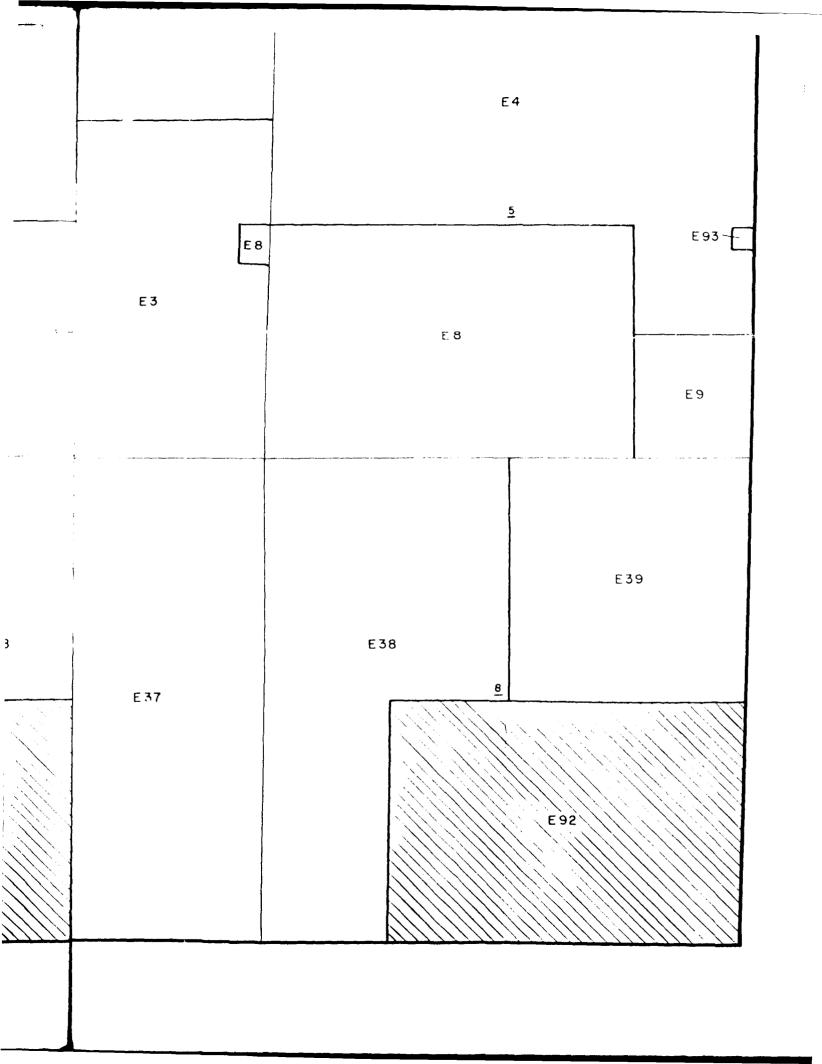










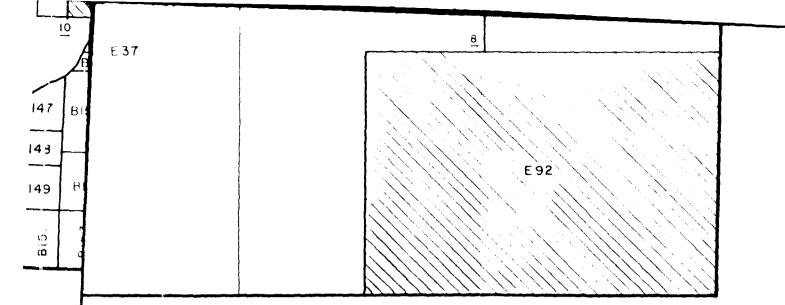


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PARCELS ON WHICH WELL(S) ARE NOTED IN APPRAISAL REPORTS, BUT NOT LOCATED ON DRAWING 7:64-2105

2 SECTION NUMBER



## ATTACHMENT 2

## REAL ESTATE PLAT MAP 1942

LOCATION AND SIZE OF PARCELS INTERPRETED FROM APPRAISAL REPORTS

.

2204636. T28683EC16 1200036631

## MAP LEGEND

PRIMARY ROAD

SECONDARY ROAD

TERTIARY ROAD

BOUNDARY ROAD

OFFBASE ROAD

..... RAILROAD

HOMESTEAD

Δ POSSIBLE WELL SITES FROM 1937 AERIAL PHOTOGRAPHS

FROM 1943 ARMY MAP

DRILLED LESS THAN 100

FEET OR NO INFORMATION

ON CASING DIAMETER

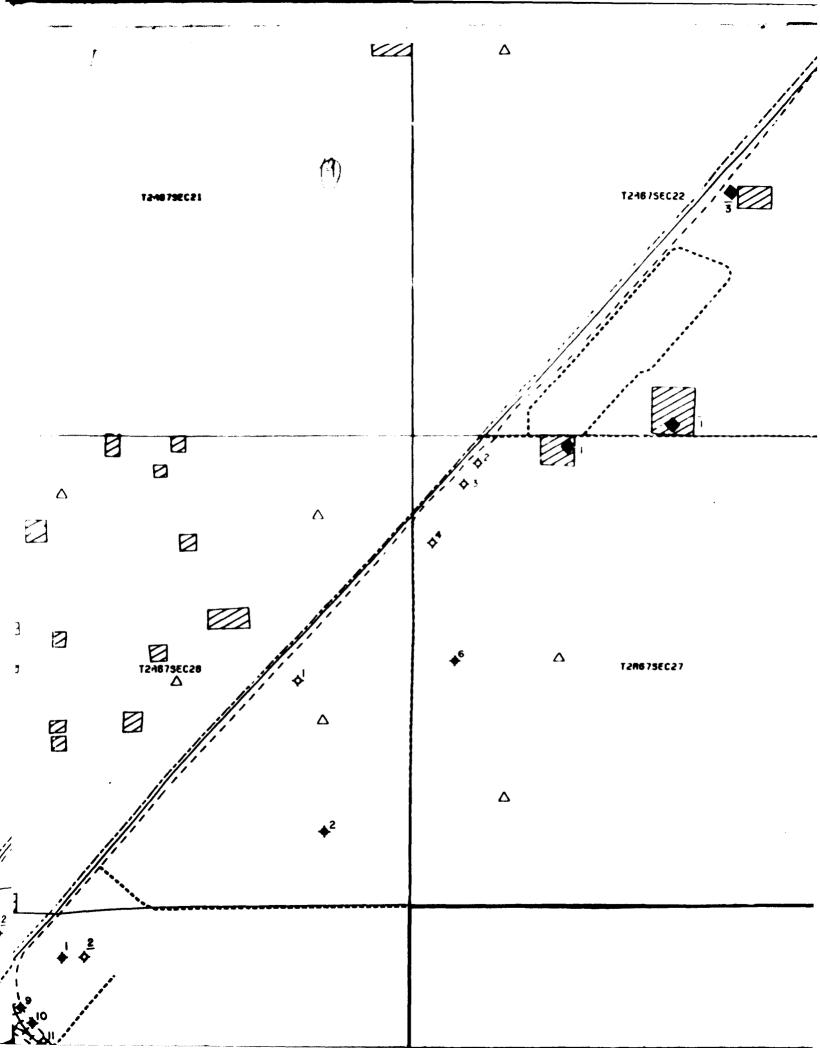
ASSUMED HAND DUG WELL;
CASING DIAMETER 24
INCHES OR GREATER-FROM
ARMY 1946 DATA

WELL GREATER THAN 100 FEET IN DEPTH-FROM ARMY 1946 DATA

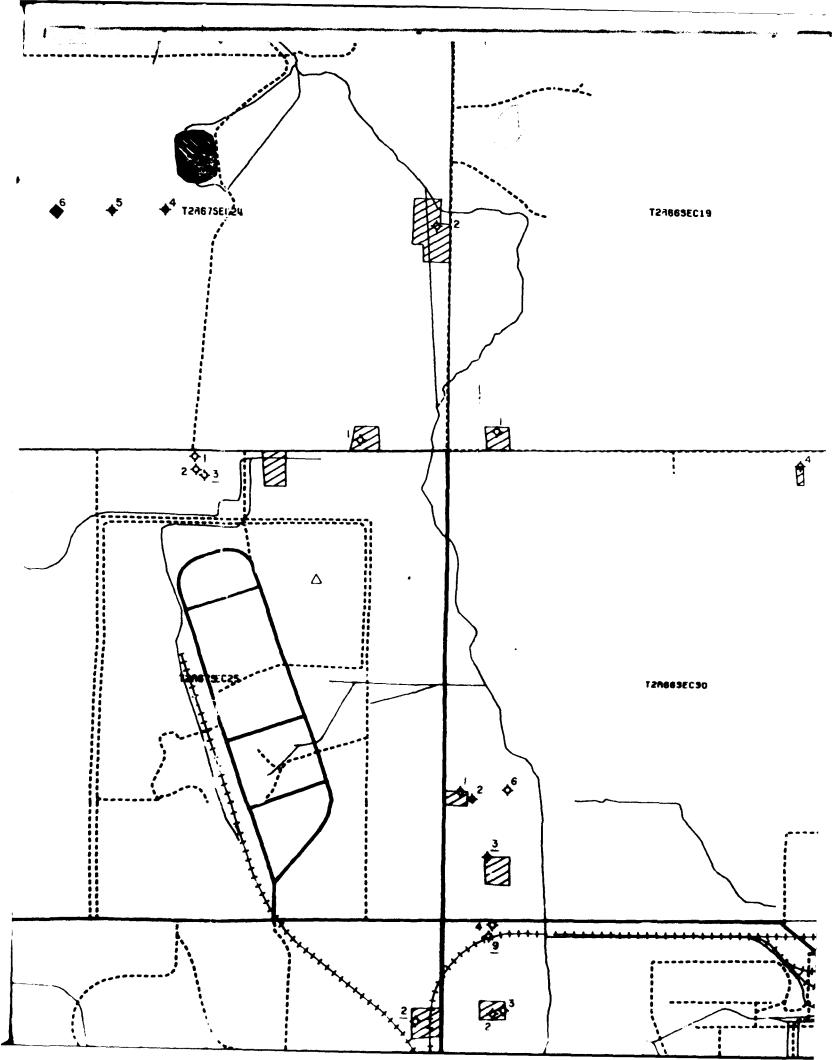
TELLED" WELL FROM

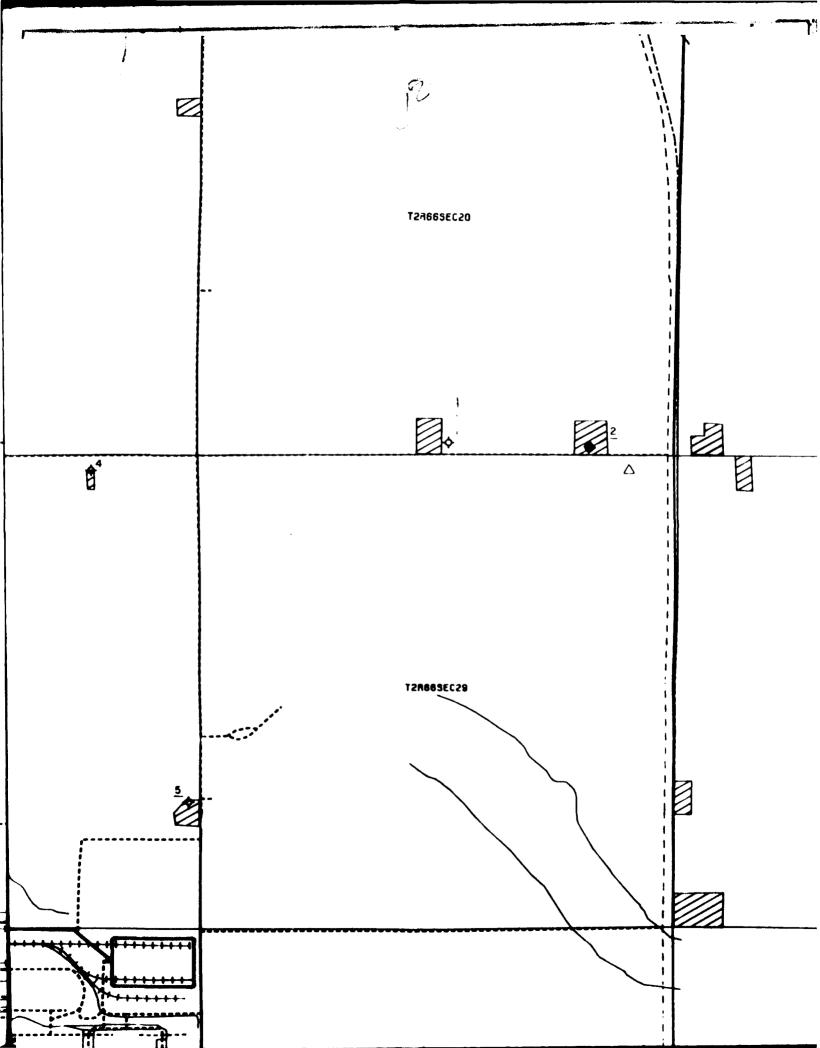
2204636.

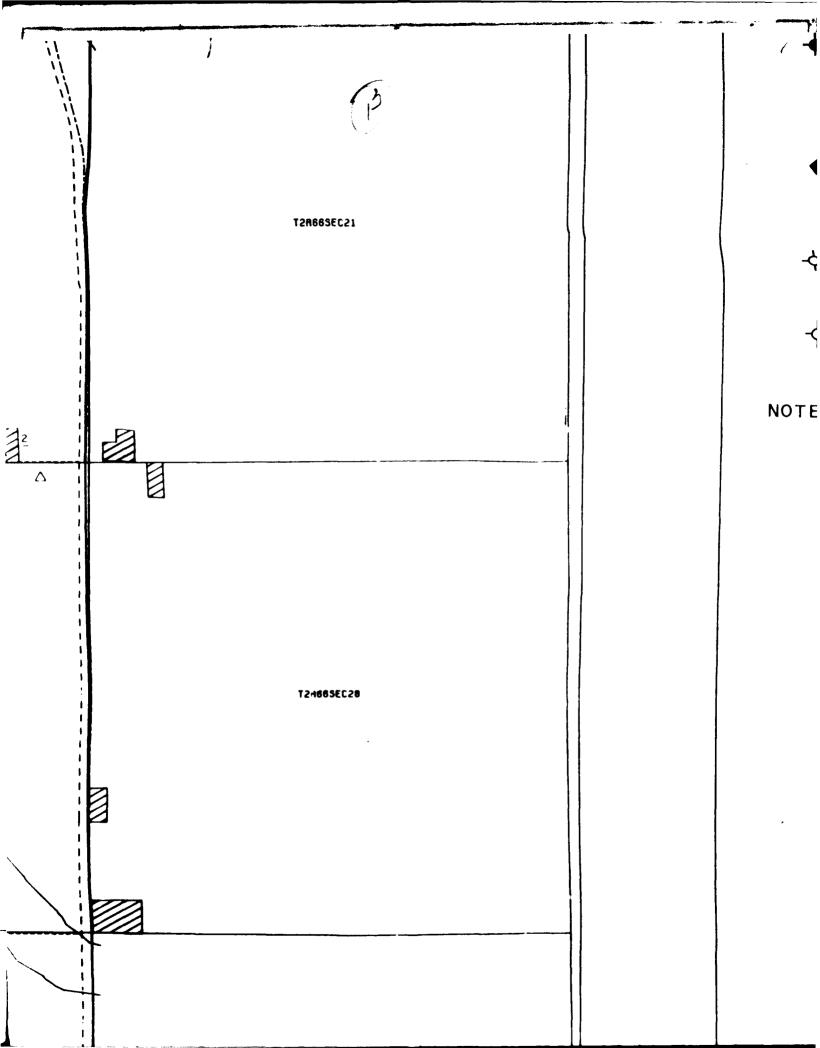
201998



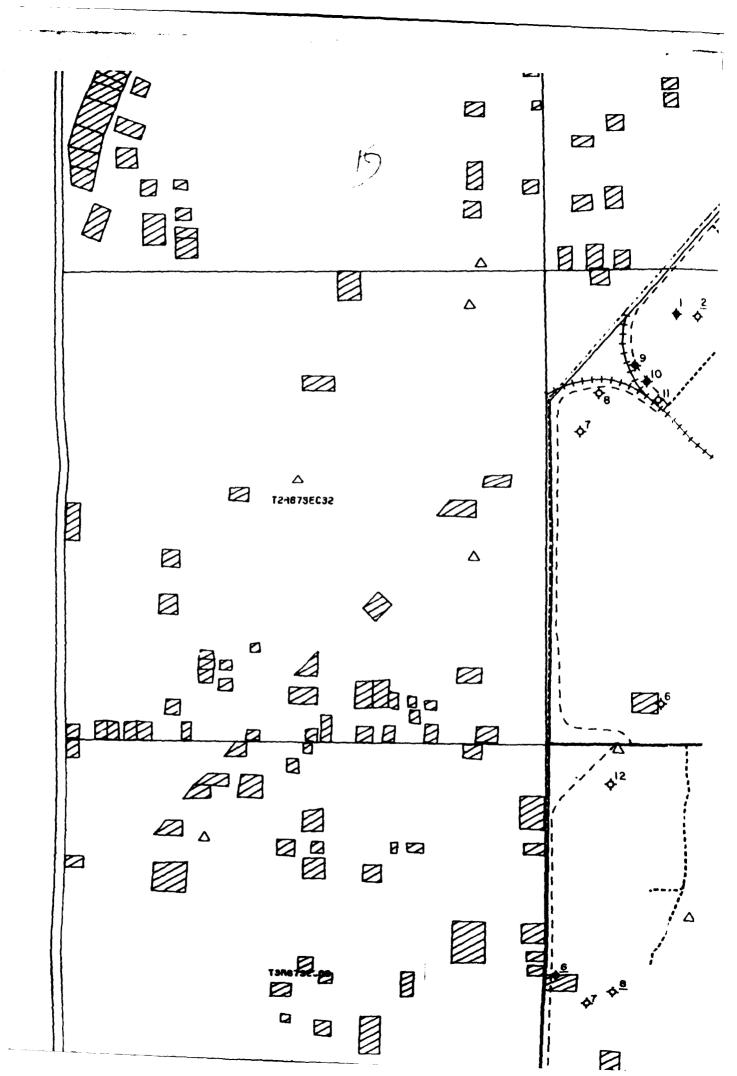


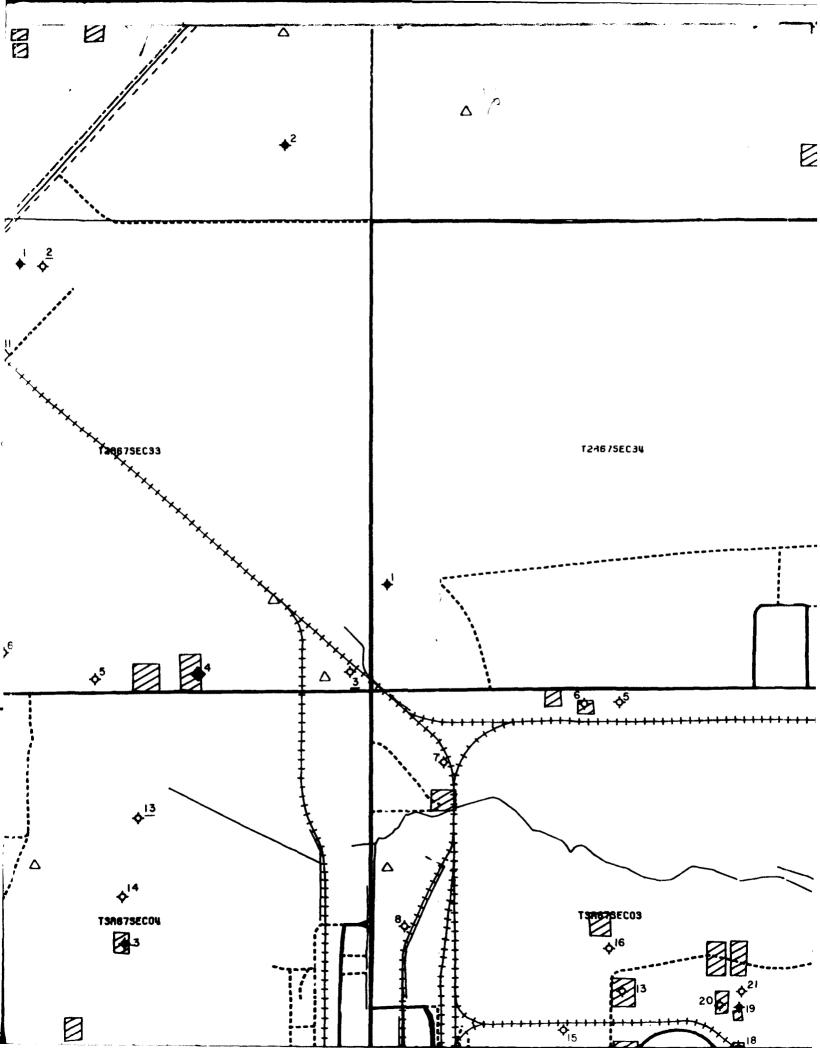


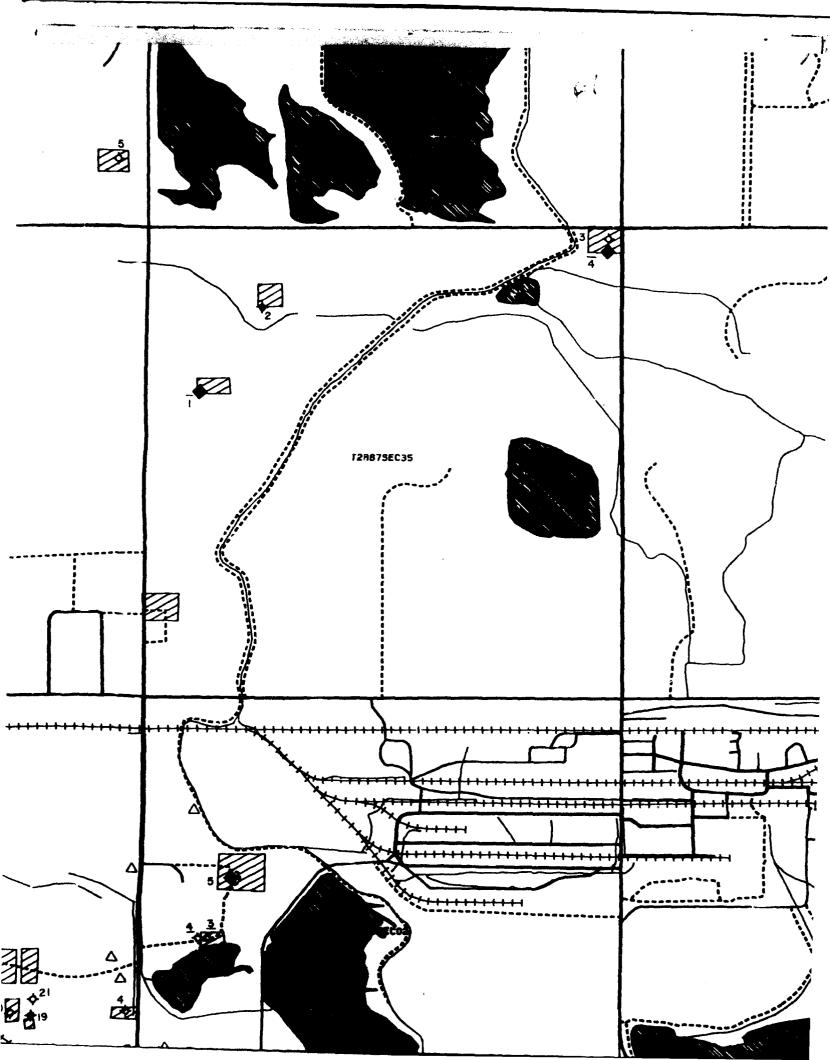


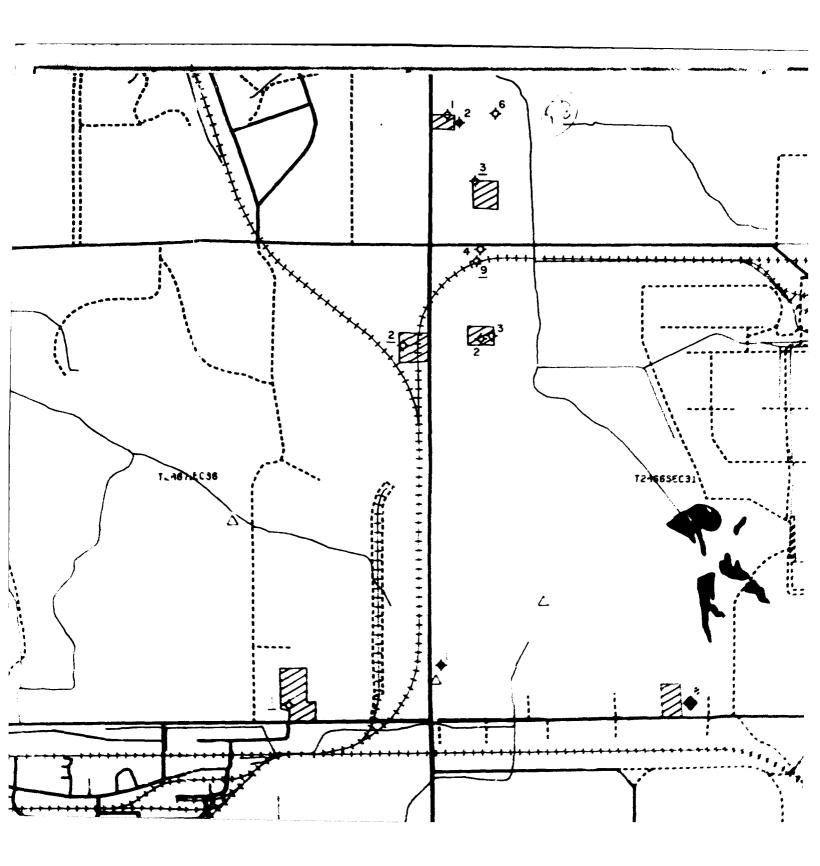


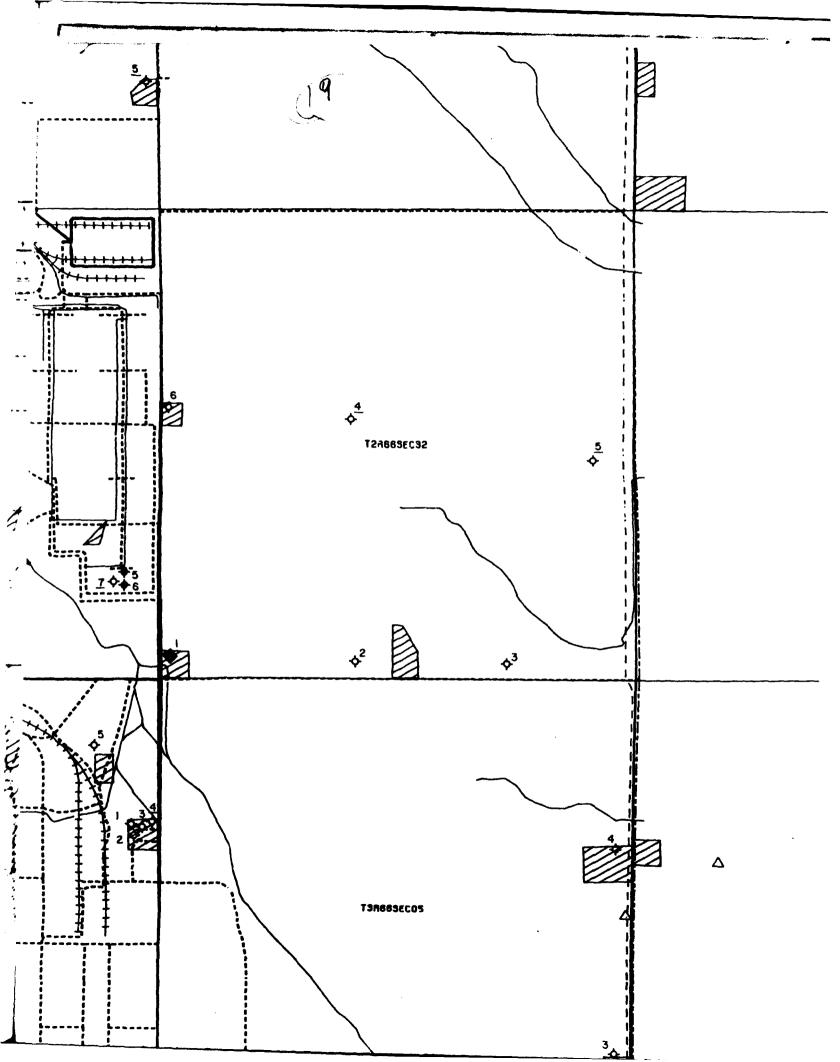
ASSUMED HAND DUG WELL: CASING DIAMETER 24 INCHES OR GREATER-FROM ARMY 1946 DATA WELL GREATER THAN 100 FEET IN DEPTH-FROM ARMY 1946 DATA "FILLED" WELL-FROM ARMY 1946 DATA PLUGGED WELL-FROM ARMY COE 1962 DATA NOTE: ALL FEATURES EXCEPT HOMESTEADS ARE CONTEMPORARY











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T2865EC33

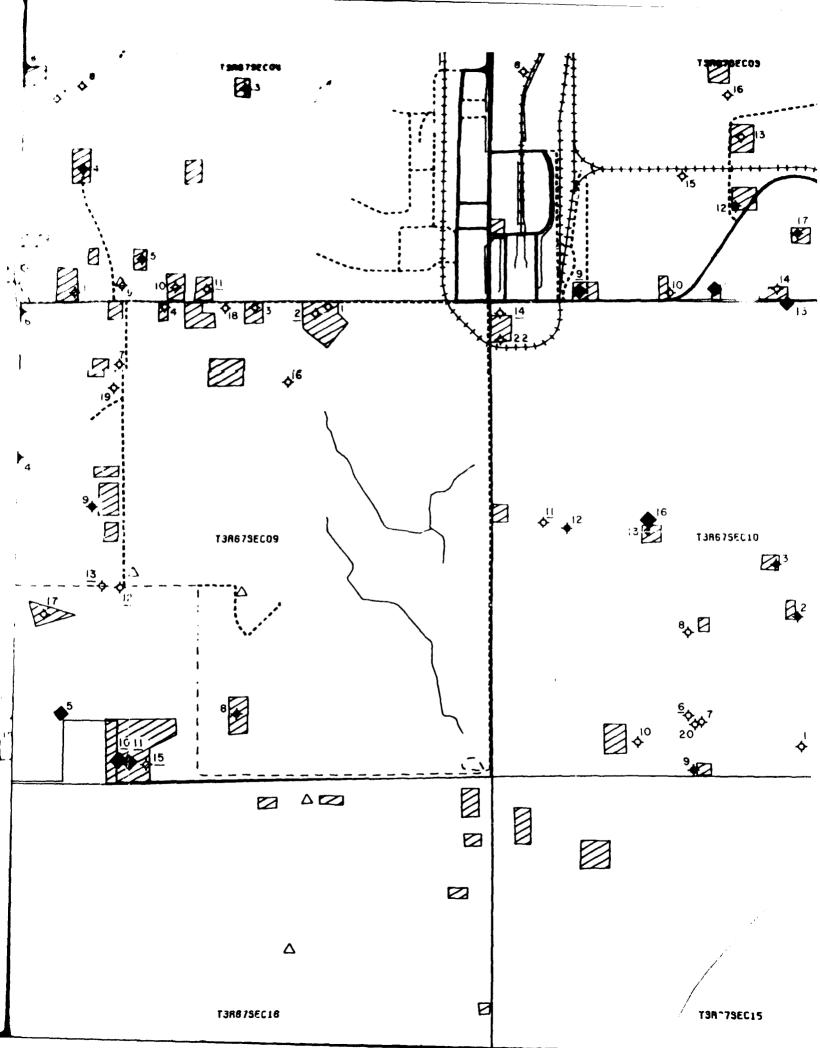


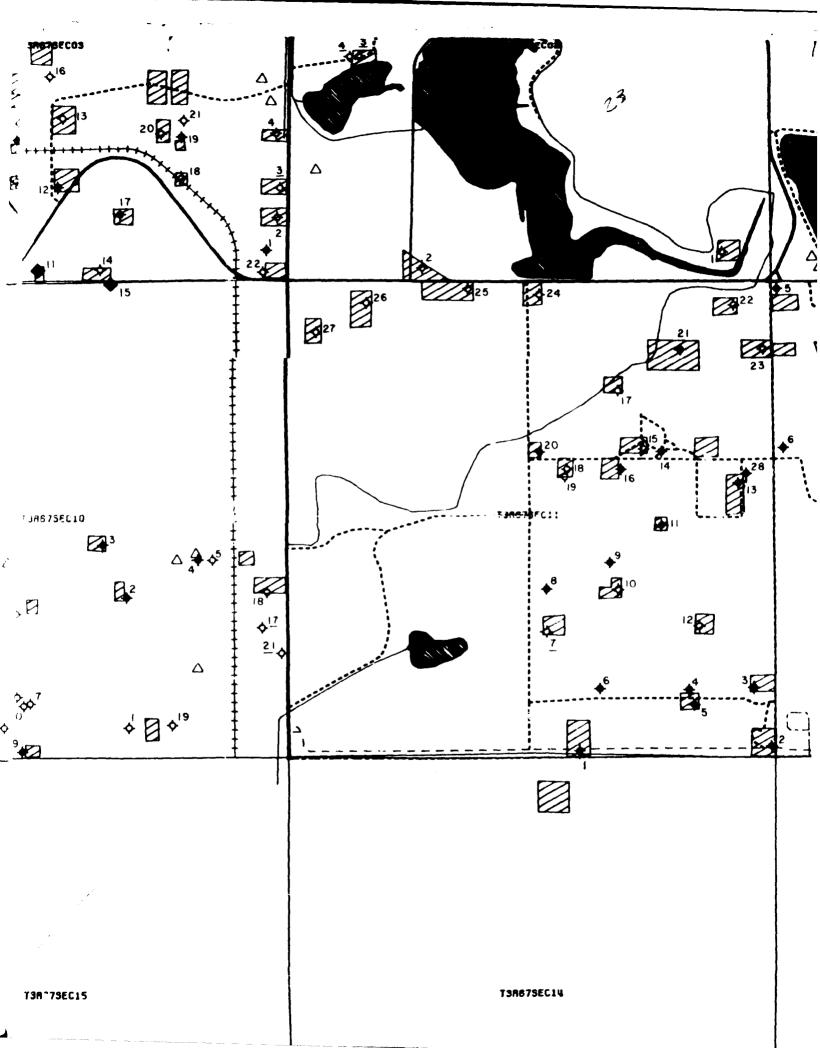
Δ

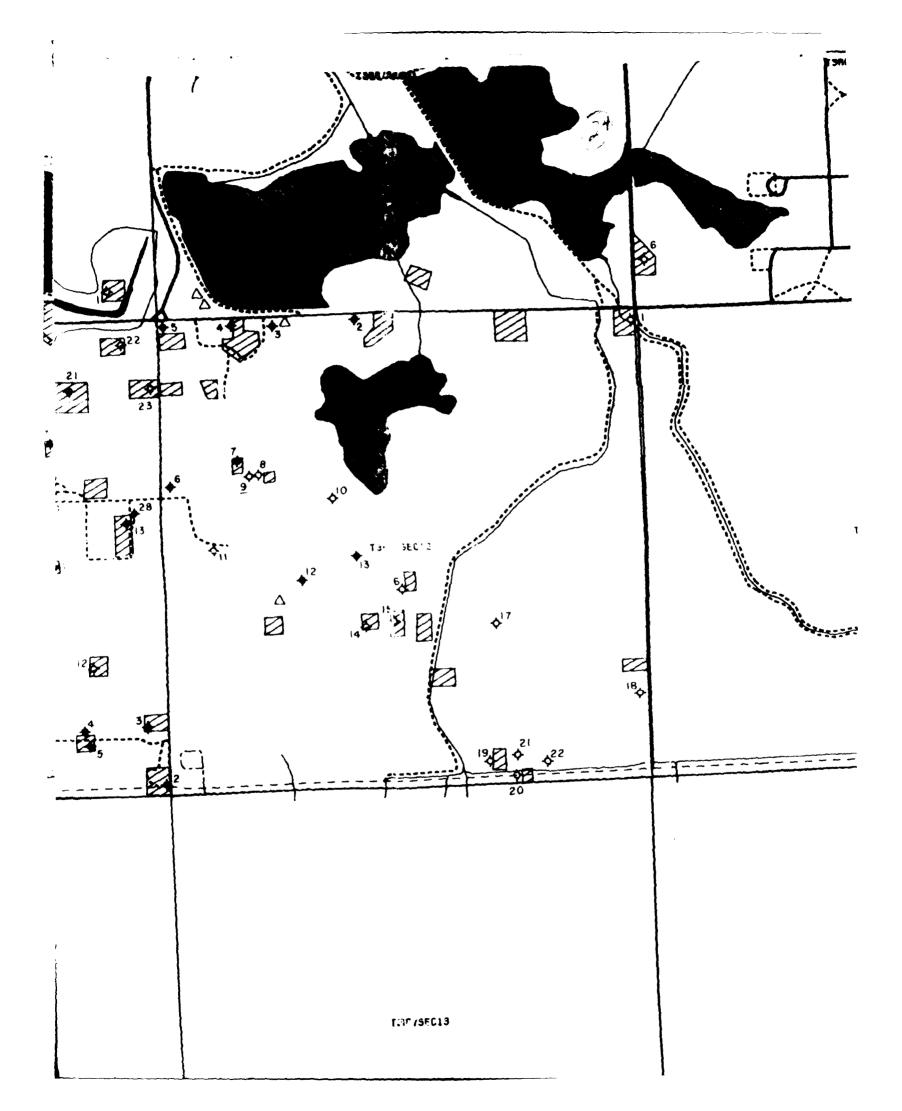
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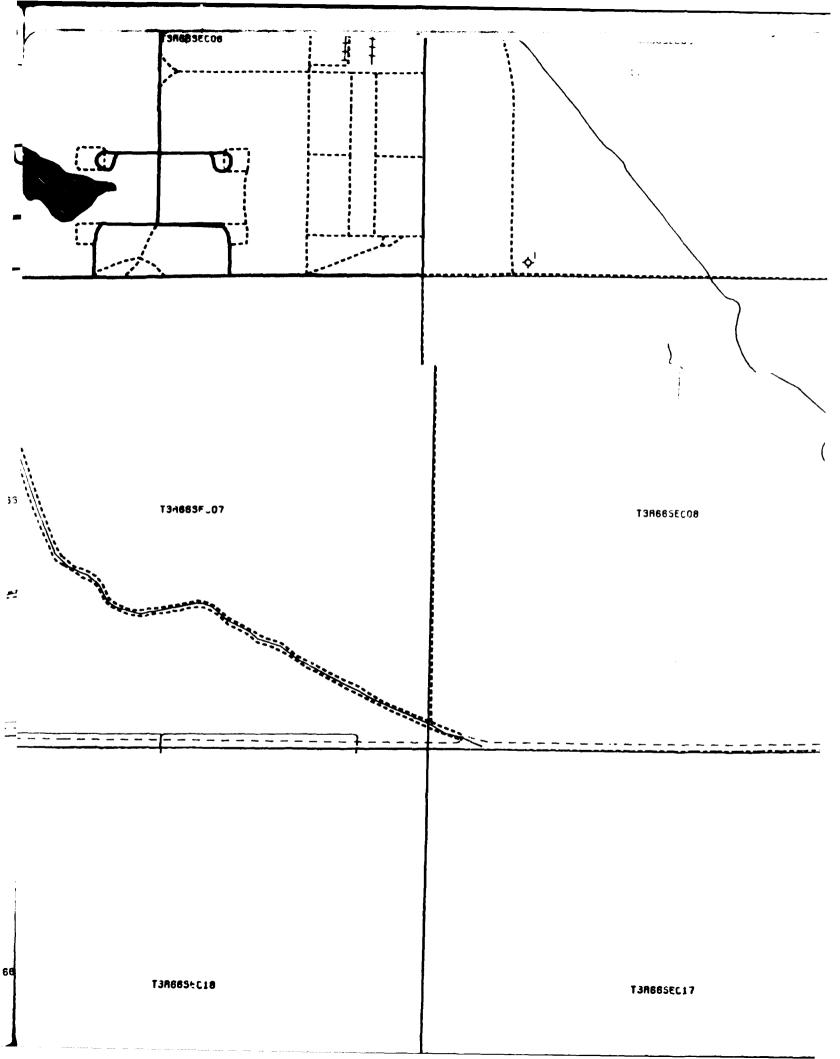
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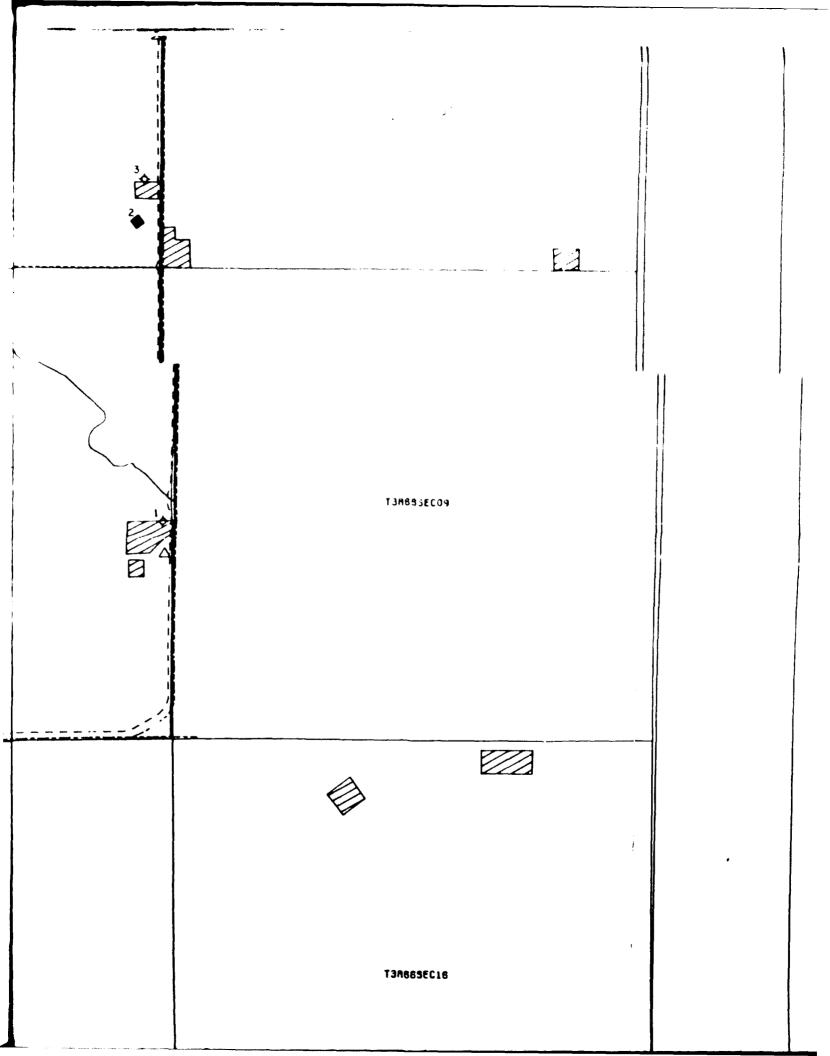
r 11 H III III mill 5.1  $i^{*}j$ 11 17.1 11 1.1 ۸ 1 IMPLACE IT

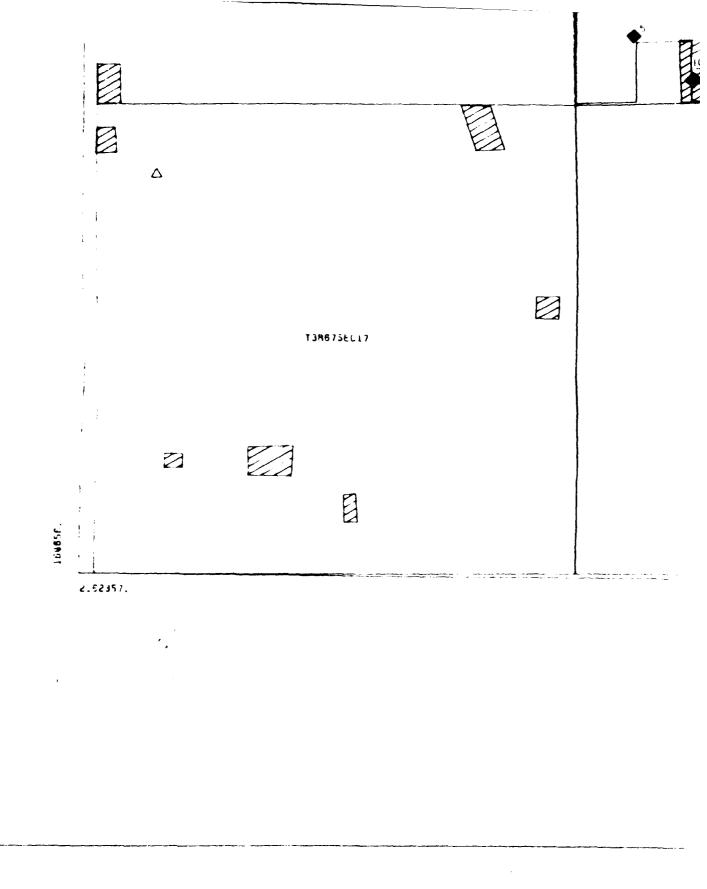


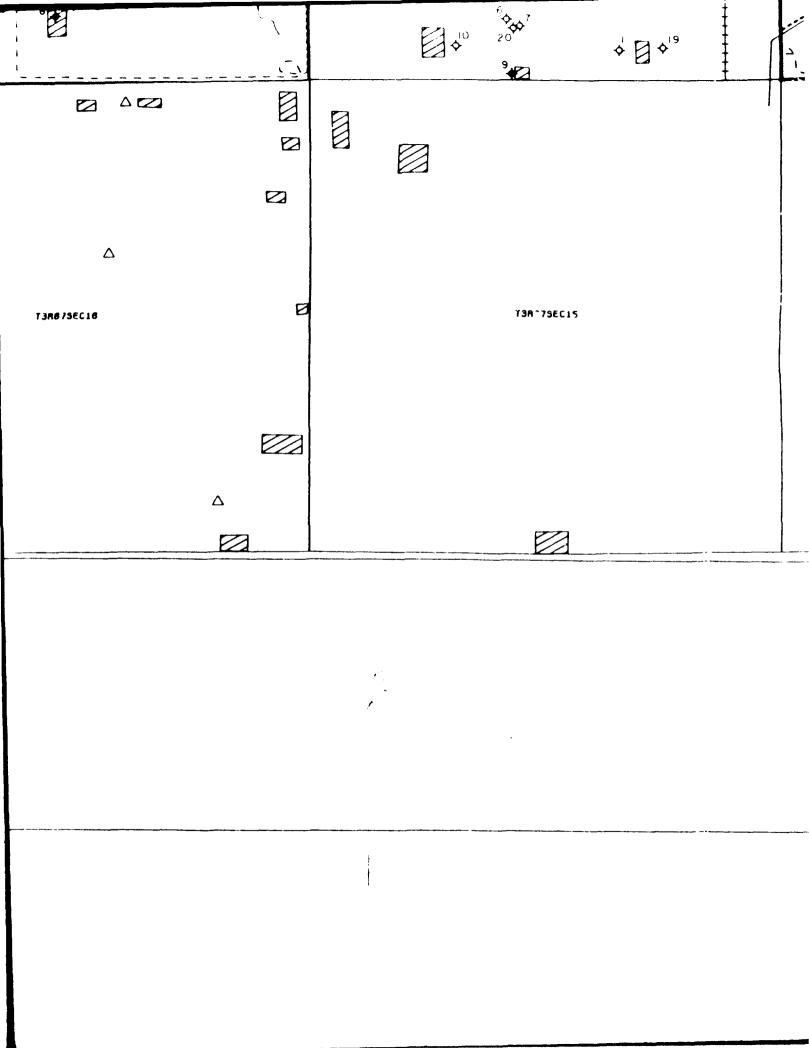


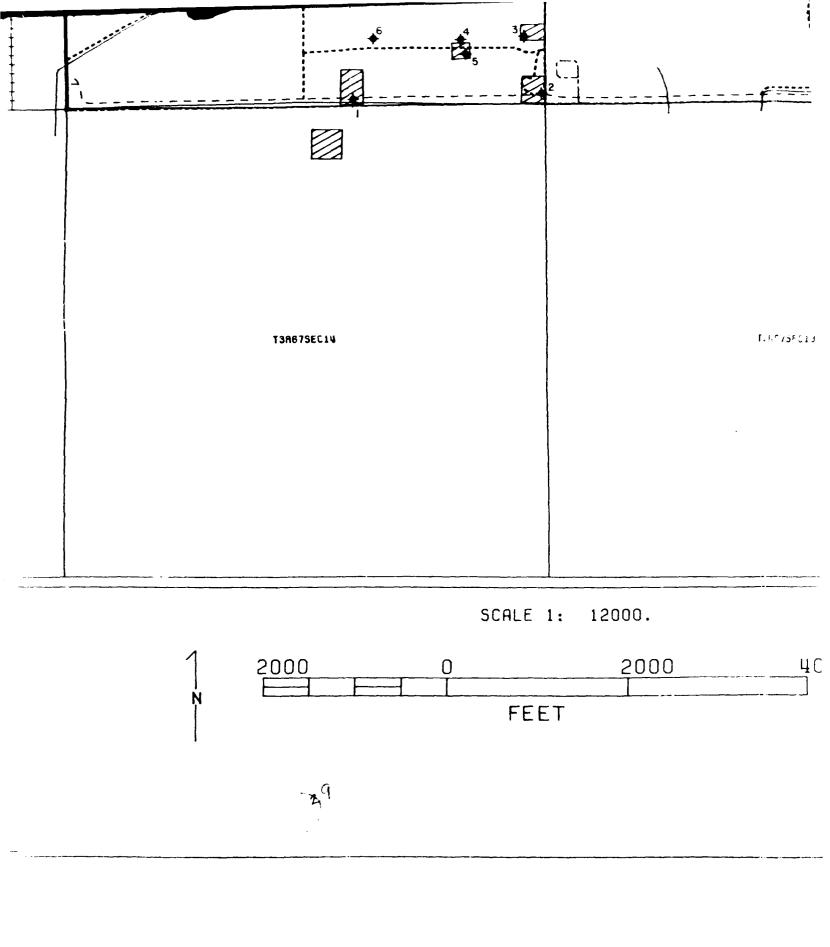


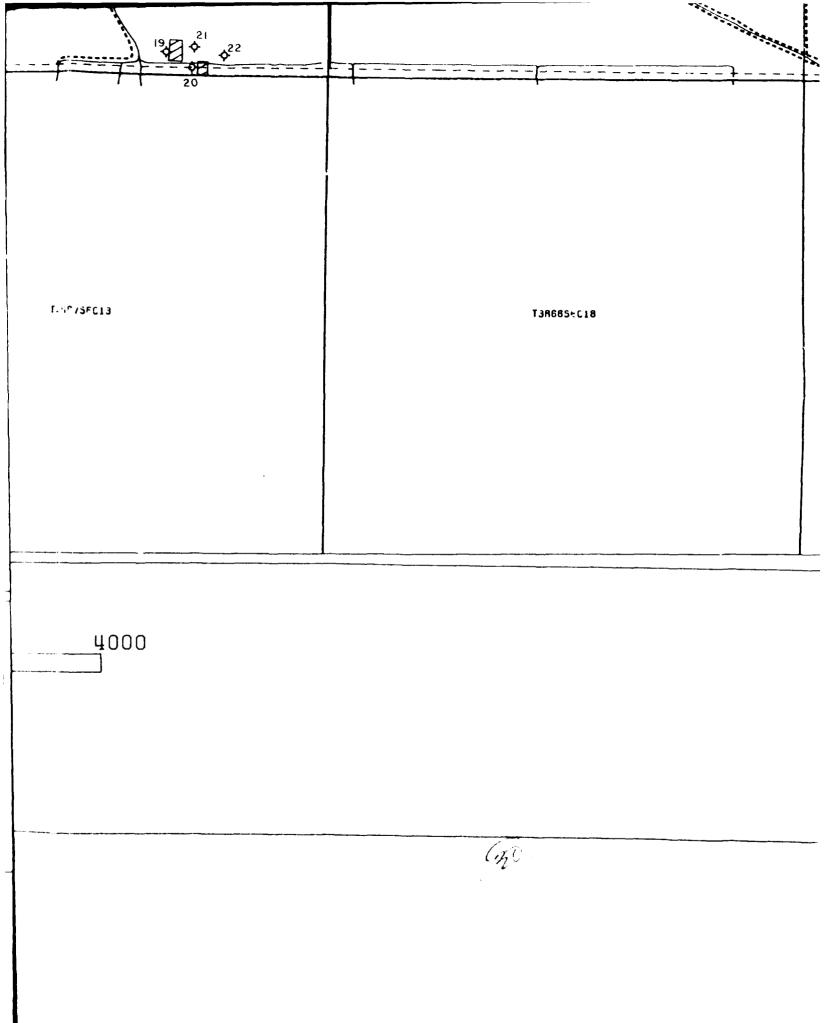


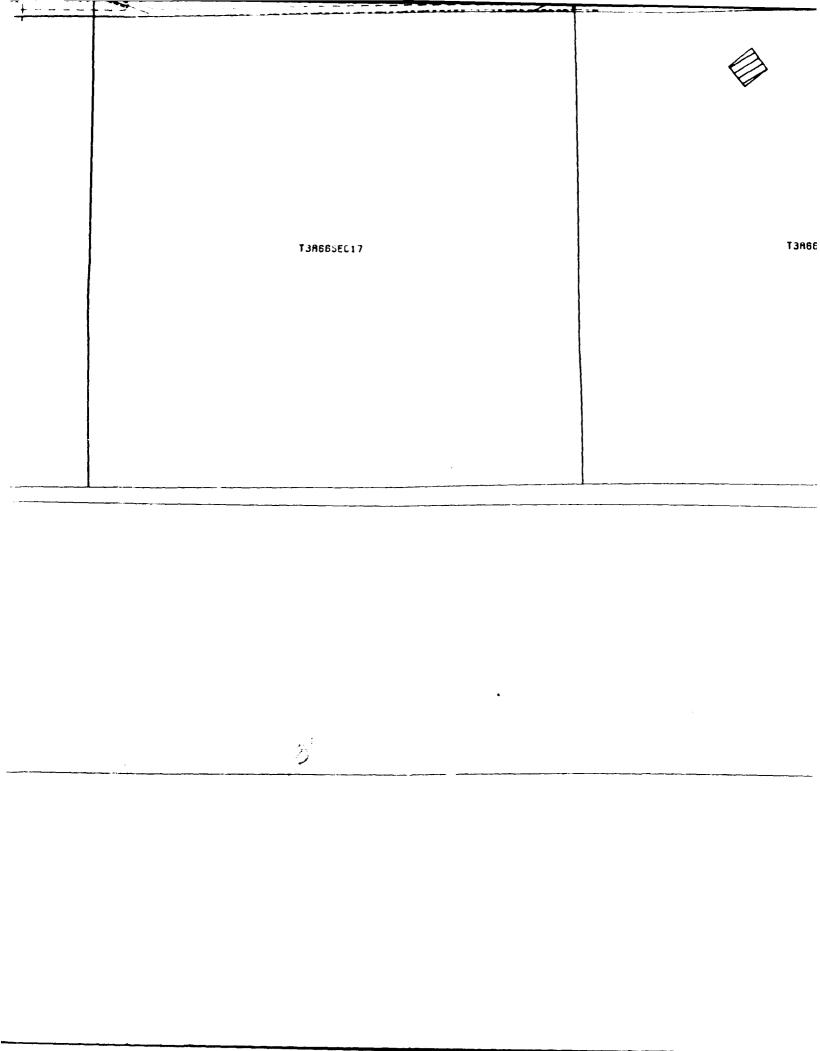












22 14796. ROCKY MOUNTAIN ARSENAL PRE-RMA WELL LOCATIONS

ATTACHMENT 3